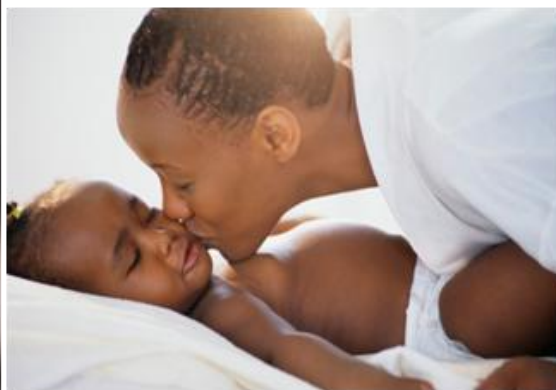


Maricopa County Health Status Report 2008



Prepared by the Maricopa County Department of Public Health
Office of Epidemiology
June 2010
Maricopa County

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Introduction

This report provides health status information for the year 2008 for residents of Maricopa County, Arizona. It includes data for mortality (death), communicable diseases, and natality (birth), as well as information on the size and demographic distribution of the population.

For each disease or health indicator, the following information is provided:

- Number of cases in the county
 - Communicable Disease Example: 90 residents of Maricopa County were diagnosed with a confirmed or probable case of West Nile Virus in 2008.
 - Natality (Birth) Example: There were 714 infants born with a very low birthweight (less than 1500 grams) in 2008.
- Rate or percentage of cases in the county
 - Communicable Disease Example: For every 100,000 residents of Maricopa County, 2.3 were diagnosed with West Nile Virus in 2008.
 - Natality (Birth) Example: Among all live births in 2008, 1.1% were born with a very low birthweight.

All data in this report are for calendar year 2008.

Information on data sources and methodology are in Section V – Technical Notes.

I. Maricopa County 2008 Population Statistics

Maricopa County 2008 Population Statistics

Table 1.01 Population By Race/Ethnicity, Age, and Sex, 2008

Age by Sex

Age	Males		Females		Total	
	No.	%	No.	%	No.	%
0-4	169,824	8.5%	162,491	8.3%	332,315	8.4%
5-9	154,685	7.8%	148,573	7.6%	303,258	7.7%
10-14	143,812	7.2%	137,049	7.0%	280,861	7.1%
15-19	137,955	6.9%	127,945	6.5%	265,900	6.7%
20-24	131,561	6.6%	116,478	5.9%	248,039	6.3%
25-34	314,920	15.8%	280,132	14.3%	595,052	15.0%
35-44	294,831	14.8%	274,524	14.0%	569,355	14.4%
45-54	257,190	12.9%	259,073	13.2%	516,263	13.1%
55-64	188,266	9.4%	204,258	10.4%	392,524	9.9%
65-74	110,680	5.6%	125,119	6.4%	235,799	6.0%
75-84	64,954	3.3%	84,489	4.3%	149,443	3.8%
85+	24,294	1.2%	41,495	2.1%	65,789	1.7%
Total	1,992,972		1,961,626		3,954,598	

Race/Ethnicity by Sex

Race/Ethnicity	Males		Females	
	No.	%	No.	%
White	1,147,368	57.6%	1,179,198	60.1%
Hispanic	645,667	32.4%	578,338	29.5%
African American	84,855	4.3%	81,530	4.2%
Amer. Ind., Non-Hisp	30,758	1.5%	33,469	1.7%
Asian	56,360	2.8%	60,965	3.1%
Other/2+ Races	27,964	1.4%	28,126	1.4%
Total	1,992,972		1,961,626	

Age by Race/Ethnicity

Age	White		Hispanic		African American		American Indian		Asian		Other/2+ Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
0-4	131,757	5.7%	159,937	13.1%	15,255	9.2%	6,805	10.6%	9,179	7.8%	9,382	16.7%	332,315
5-9	130,512	5.6%	135,472	11.1%	14,926	9.0%	5,977	9.3%	8,061	6.9%	8,310	14.8%	303,258
10-14	130,071	5.6%	116,880	9.5%	14,138	8.5%	5,191	8.1%	7,558	6.4%	7,023	12.5%	280,861
15-19	133,772	5.7%	100,675	8.2%	14,038	8.4%	5,800	9.0%	6,229	5.3%	5,386	9.6%	265,900
20-24	131,708	5.7%	88,049	7.2%	12,421	7.5%	5,517	8.6%	5,969	5.1%	4,375	7.8%	248,039
25-34	290,717	12.5%	237,829	19.4%	25,566	15.4%	11,961	18.6%	21,814	18.6%	7,165	12.8%	595,052
35-44	327,459	14.1%	179,320	14.7%	25,042	15.1%	9,538	14.9%	22,830	19.5%	5,166	9.2%	569,355
45-54	359,644	15.5%	108,396	8.9%	21,352	12.8%	6,721	10.5%	15,913	13.6%	4,237	7.6%	516,263
55-64	306,573	13.2%	56,119	4.6%	12,748	7.7%	3,877	6.0%	10,499	8.9%	2,708	4.8%	392,524
65-74	194,624	8.4%	25,598	2.1%	6,640	4.0%	1,747	2.7%	5,709	4.9%	1,481	2.6%	235,799
75-84	130,527	5.6%	11,646	1.0%	3,142	1.9%	775	1.2%	2,721	2.3%	632	1.1%	149,443
85+	59,202	2.5%	4,084	0.3%	1,117	0.7%	318	0.5%	843	0.7%	225	0.4%	65,789
Total	2,326,566		1,224,005		166,385		64,227		117,325		56,090		3,954,598

Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2008.

Maricopa County 2008 Population Statistics

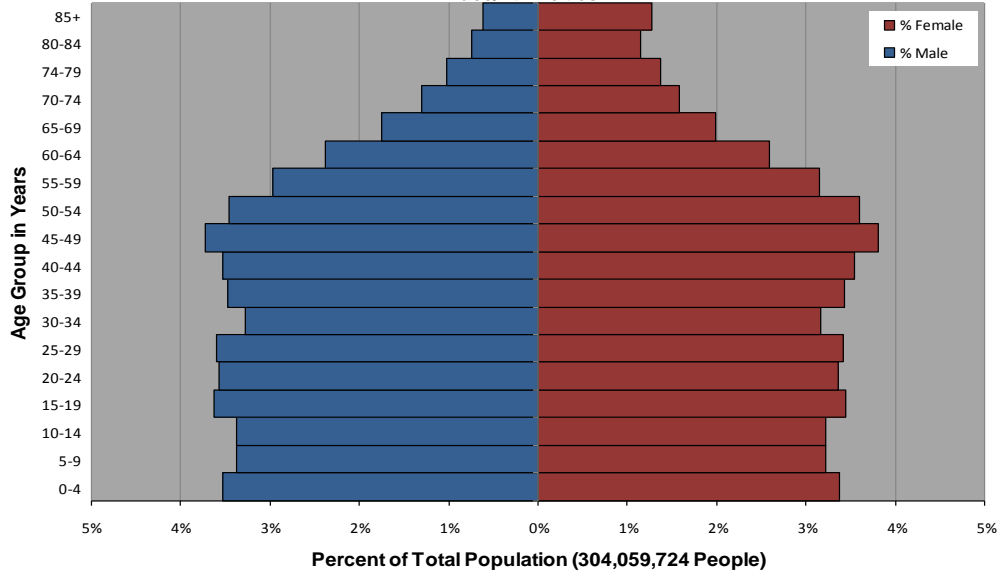
Table 1.02 Population Estimates by Sex, Age, and Race/Ethnicity, 2008

Females Age	White		Hispanic		African American		American Indian		Asian		Other/2+ Races		Total
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
0-4	64,340	5.5%	78,118	13.5%	7,537	9.2%	3,413	10.2%	4,481	7.4%	4,602	16.4%	162,491
5-9	63,782	5.4%	66,403	11.5%	7,417	9.1%	2,973	8.9%	4,014	6.6%	3,984	14.2%	148,573
10-14	63,318	5.4%	56,979	9.9%	7,011	8.6%	2,538	7.6%	3,772	6.2%	3,431	12.2%	137,049
15-19	64,819	5.5%	48,049	8.3%	6,571	8.1%	2,932	8.8%	2,977	4.9%	2,597	9.2%	127,945
20-24	62,855	5.3%	40,249	7.0%	5,720	7.0%	2,843	8.5%	2,783	4.6%	2,028	7.2%	116,478
25-29	73,199	6.2%	51,545	8.9%	6,289	7.7%	3,313	9.9%	4,823	7.9%	2,139	7.6%	141,308
30-34	69,241	5.9%	52,881	9.1%	5,772	7.1%	3,062	9.1%	6,250	10.3%	1,618	5.8%	138,824
35-39	79,100	6.7%	45,253	7.8%	6,308	7.7%	2,574	7.7%	6,518	10.7%	1,444	5.1%	141,197
40-44	82,316	7.0%	36,323	6.3%	5,854	7.2%	2,242	6.7%	5,353	8.8%	1,239	4.4%	133,327
45-49	93,113	7.9%	29,464	5.1%	5,650	6.9%	2,090	6.2%	4,538	7.4%	1,156	4.1%	136,011
50-54	89,463	7.6%	22,088	3.8%	4,678	5.7%	1,634	4.9%	4,114	6.7%	1,085	3.9%	123,062
55-59	84,525	7.2%	16,347	2.8%	3,855	4.7%	1,288	3.8%	3,491	5.7%	813	2.9%	110,319
60-64	75,518	6.4%	11,662	2.0%	2,697	3.3%	857	2.6%	2,540	4.2%	665	2.4%	93,939
65-69	58,621	5.0%	8,005	1.4%	2,096	2.6%	604	1.8%	1,797	2.9%	510	1.8%	71,633
70-74	44,305	3.8%	5,585	1.0%	1,489	1.8%	440	1.3%	1,366	2.2%	301	1.1%	53,486
75+	110,683	9.4%	9,387	1.6%	2,586	3.2%	666	2.0%	2,148	3.5%	514	1.8%	125,984
Total	1,179,198		578,338		81,530		33,469		60,965		28,126		1,961,626
Males													
0-4	67,417	5.9%	81,819	12.7%	7,718	9.1%	3,392	11.0%	4,698	8.3%	4,780	17.1%	169,824
5-9	66,730	5.8%	69,069	10.7%	7,509	8.8%	3,004	9.8%	4,047	7.2%	4,326	15.5%	154,685
10-14	66,753	5.8%	59,901	9.3%	7,127	8.4%	2,653	8.6%	3,786	6.7%	3,592	12.8%	143,812
15-19	68,953	6.0%	52,626	8.2%	7,467	8.8%	2,868	9.3%	3,252	5.8%	2,789	10.0%	137,955
20-24	68,853	6.0%	47,800	7.4%	6,701	7.9%	2,674	8.7%	3,186	5.7%	2,347	8.4%	131,561
25-29	77,688	6.8%	66,787	10.3%	7,246	8.5%	2,908	9.5%	4,787	8.5%	2,008	7.2%	161,424
30-34	70,589	6.2%	66,616	10.3%	6,259	7.4%	2,678	8.7%	5,954	10.6%	1,400	5.0%	153,496
35-39	82,070	7.2%	54,394	8.4%	6,591	7.8%	2,507	8.2%	6,251	11.1%	1,374	4.9%	153,187
40-44	83,973	7.3%	43,350	6.7%	6,289	7.4%	2,215	7.2%	4,708	8.4%	1,109	4.0%	141,644
45-49	91,395	8.0%	33,255	5.2%	6,231	7.3%	1,717	5.6%	3,967	7.0%	1,126	4.0%	137,691
50-54	85,673	7.5%	23,589	3.7%	4,793	5.6%	1,280	4.2%	3,294	5.8%	870	3.1%	119,499
55-59	77,181	6.7%	16,684	2.6%	3,578	4.2%	1,031	3.4%	2,611	4.6%	700	2.5%	101,785
60-64	69,349	6.0%	11,426	1.8%	2,618	3.1%	701	2.3%	1,857	3.3%	530	1.9%	86,481
65-69	52,957	4.6%	7,321	1.1%	1,800	2.1%	430	1.4%	1,447	2.6%	410	1.5%	64,365
70-74	38,741	3.4%	4,687	0.7%	1,255	1.5%	273	0.9%	1,099	1.9%	260	0.9%	46,315
75+	79,046	6.9%	6,343	1.0%	1,673	2.0%	427	1.4%	1,416	2.5%	343	1.2%	89,248
Total	1,147,368		645,667		84,855		30,758		56,360		27,964		1,992,972

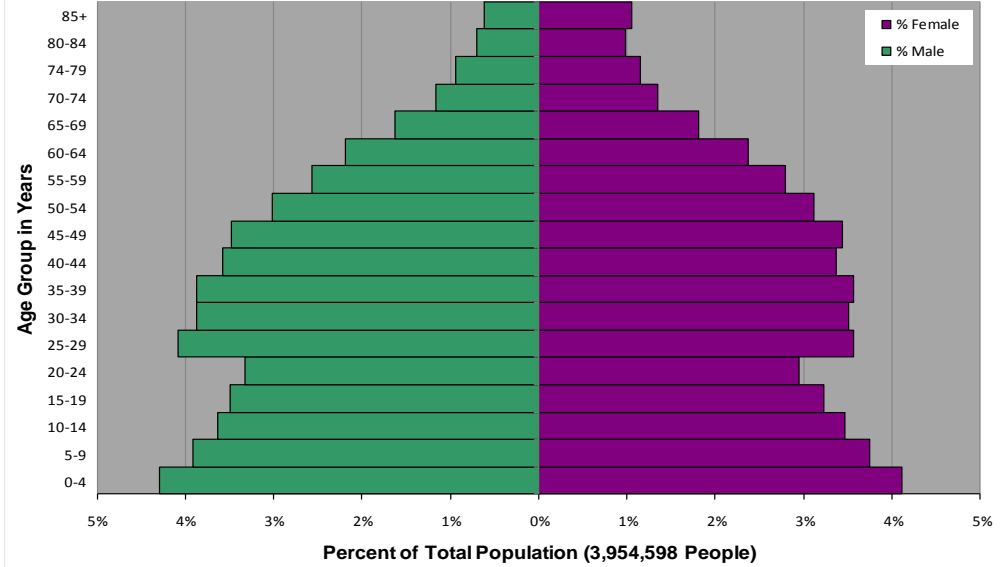
Source: United States Census, Population Estimates Division. Data on this page were used for calculating all rates (denominators) in this report for 2008.

Maricopa County 2008 Population Statistics

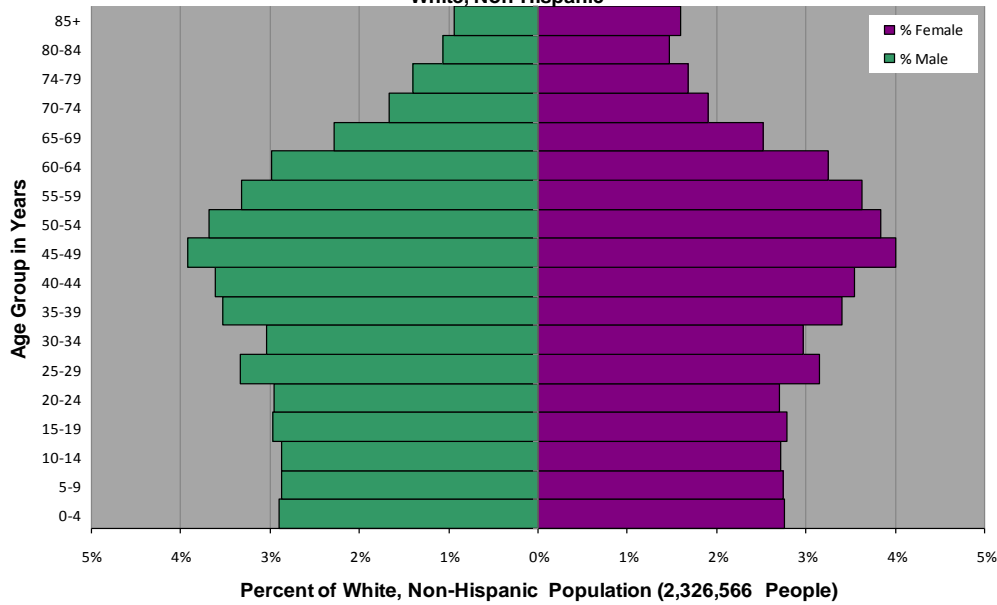
Population Pyramid for United States of America by Age and Sex, 2008
All Race/Ethnicities



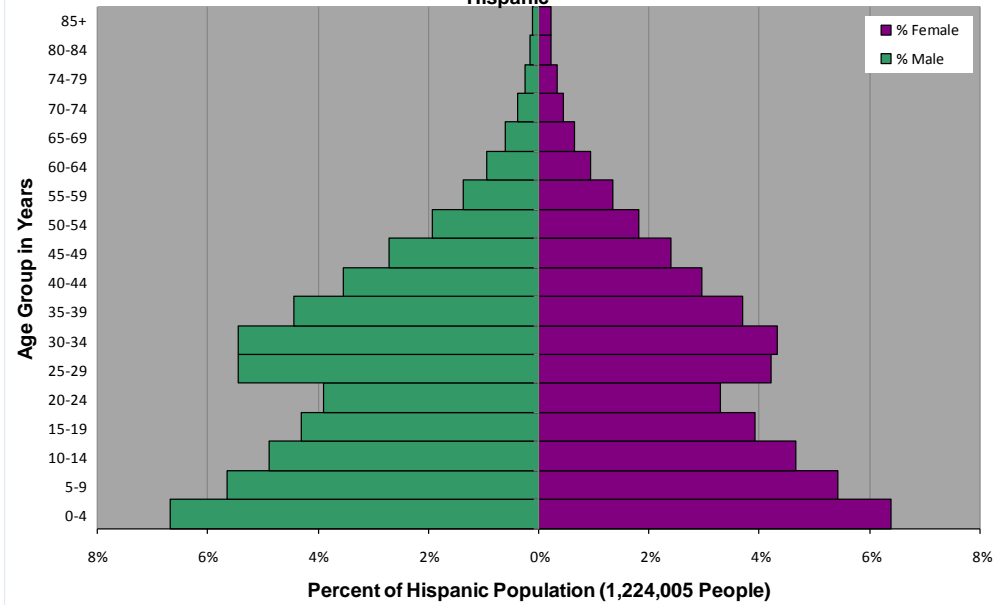
Population Pyramid for Maricopa County by Age and Sex, 2008
All Race/Ethnicities



Population Pyramid for Maricopa County by Age and Sex, 2008
White, Non-Hispanic

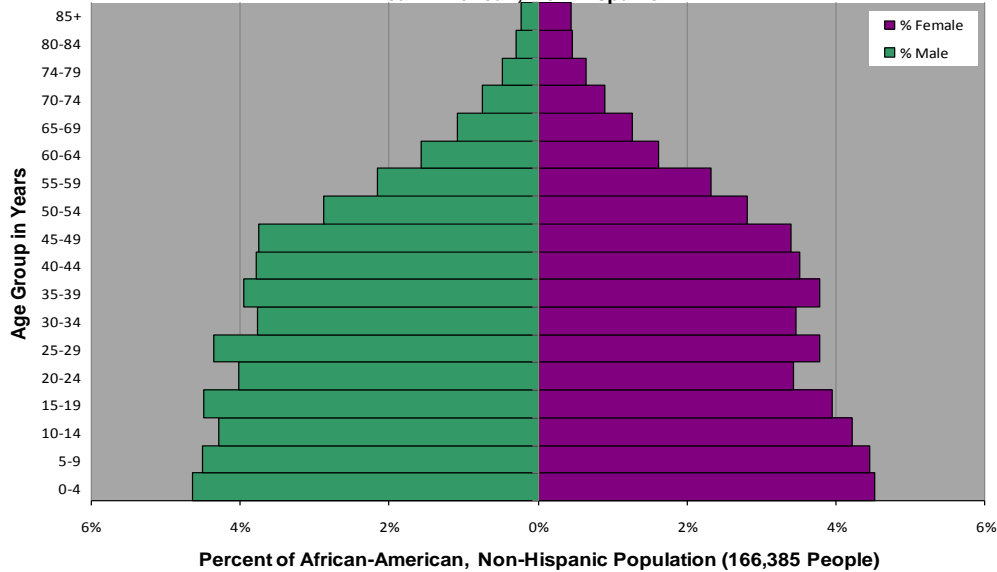


Population Pyramid for Maricopa County by Age and Sex, 2008
Hispanic

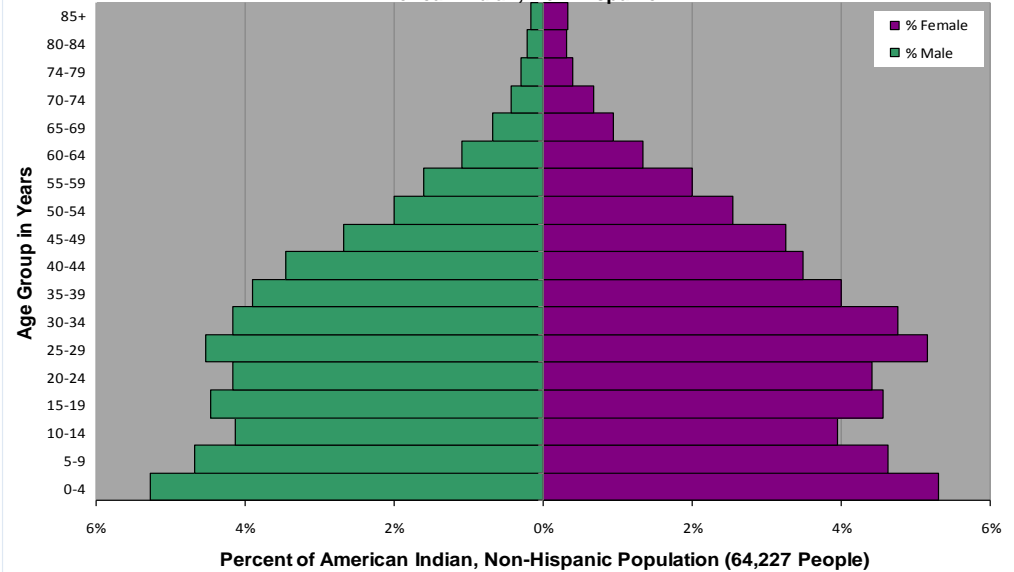


Maricopa County 2008 Population Statistics

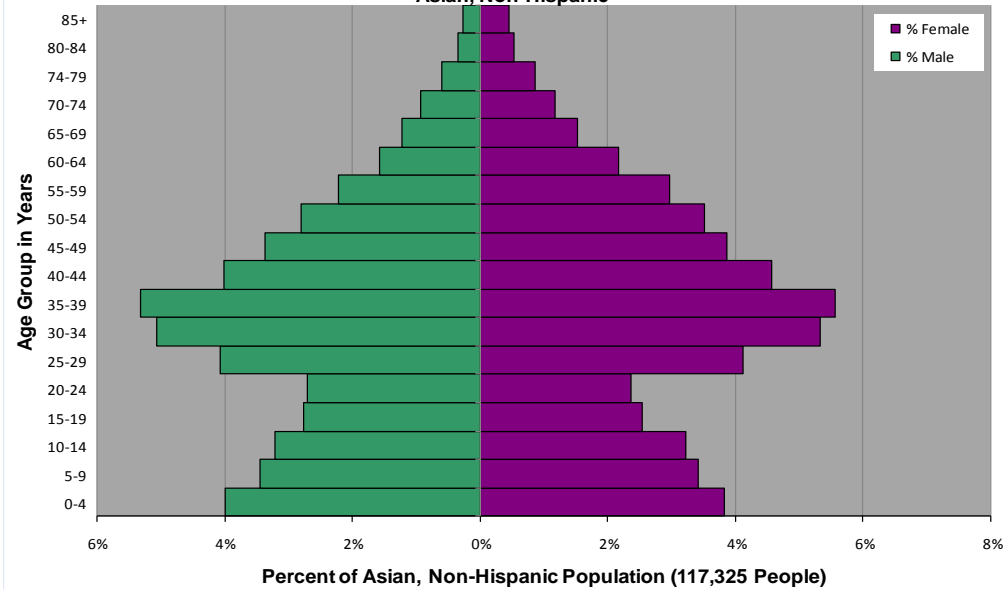
Population Pyramid for Maricopa County by Age and Sex, 2008
African-American, Non-Hispanic



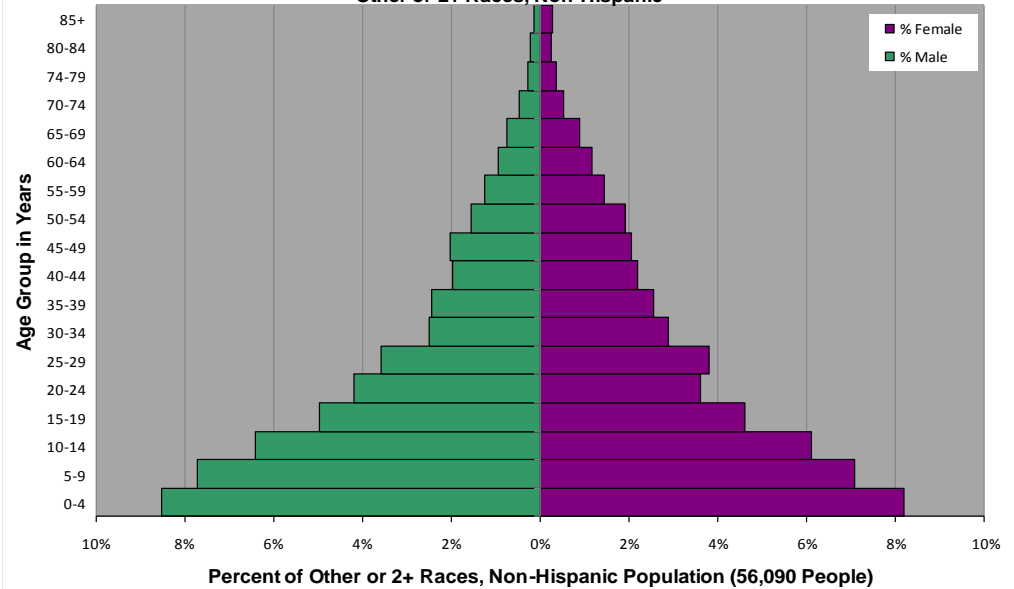
Population Pyramid for Maricopa County by Age and Sex, 2008
American Indian, Non-Hispanic



Population Pyramid for Maricopa County by Age and Sex, 2008
Asian, Non-Hispanic



Population Pyramid for Maricopa County by Age and Sex, 2008
Other or 2+ Races, Non-Hispanic



II. Maricopa County 2008 Mortality (Death) Statistics

Maricopa County 2008 Mortality (Death) Statistics
Table 2.01a Number of Deaths by Age Group and Race/Ethnicity

Age Group	Race/Ethnicity						Total
	White	Hispanic	African American	American Indian	Asian	Other/ Unknown	
<1	124	174	51	9	21	2	381
1-4	21	35	5	2	4	3	70
5-9	9	13	6	1	0	0	29
10-14	16	16	6	0	1	0	39
15-19	65	68	14	5	4	1	157
20-24	119	78	21	14	2	1	235
25-34	268	179	43	17	8	1	516
35-44	493	203	72	34	16	1	819
45-54	1,316	306	122	50	27	4	1,825
55-64	2,210	333	179	52	47	9	2,830
65-74	3,159	413	130	41	64	6	3,813
75-84	5,605	449	141	39	67	6	6,307
85+	6,713	360	130	26	48	2	7,279
Unknown	1	0	0	0	0	0	1
Total	20,119	2,627	920	290	309	36	24,301

Table 2.01b Death Rates by Age Group and Race/Ethnicity
Crude Death Rate per 100,000 Residents

Age Group	Race/Ethnicity						Total
	White	Hispanic	African American	American Indian	Asian	Other/ Unknown	
0-4	110.1	130.7	367.1	161.6	272.4	53.3	135.7
5-9	6.9	9.6	40.2	16.7	0	0	9.6
10-14	12.3	13.7	42.4	0	13.2	0	13.9
15-19	48.6	67.5	99.7	86.2	64.2	18.6	59.0
20-24	90.4	88.6	169.1	253.8	33.5	22.9	94.7
25-34	92.2	75.3	168.2	142.1	36.7	14.0	86.7
35-44	150.6	113.2	287.5	356.5	70.1	19.4	143.8
45-54	365.9	282.3	571.4	743.9	169.7	94.4	353.5
55-64	720.9	593.4	1404.1	1341.2	447.7	332.3	721.0
65-74	1623.1	1613.4	1957.8	2346.9	1121.0	405.1	1617.1
75-84	4294.1	3855.4	4487.6	5032.3	2462.3	949.4	4220.3
85+	11339.1	8814.9	11638.3	8176.1	5694.0	888.9	11064.2
Unknown	-	-	-	-	-	-	-
Total	864.8	214.6	552.9	451.5	263.4	64.2	614.5

Maricopa County 2008 Mortality (Death) Statistics
Table 2.02a Number of Deaths by Age Group and Sex

Age Group	Gender		Total
	Male	Female	
<1	203	178	381
1-4	37	33	70
5-9	13	16	29
10-14	31	8	39
15-19	111	46	157
20-24	187	48	235
25-34	382	134	516
35-44	560	259	819
45-54	1,129	696	1,825
55-64	1,652	1,178	2,830
65-74	2,144	1,669	3,813
75-84	3,277	3,030	6,307
85+	2,805	4,474	7,279
Unknown	0	1	1
Total	12,531	11,770	24,301

Table 2.02b Death Rates by Age Group and Sex
Crude Death Rate per 100,000 Residents

Age Group	Gender		Total
	Male	Female	
0-4	141.3	129.9	135.7
5-9	8.4	10.8	9.6
10-14	21.6	5.8	13.9
15-19	80.5	36.0	59.0
20-24	142.1	41.2	94.7
25-34	121.3	47.8	86.7
35-44	189.9	94.3	143.8
45-54	439.0	268.7	353.5
55-64	877.5	576.7	721.0
65-74	1937.1	1333.9	1617.1
75-84	5045.1	3586.3	4220.3
85+	11546.1	10782.0	11064.2
Unknown	-	-	-
Total	628.8	600.0	614.5

Maricopa County 2008 Mortality (Death) Statistics
Table 2.03a Selected Underlying Causes of Death by Race/Ethnicity
Number of Cases

Cause			Race/Ethnicity					Total		
			White	Hispanic	African American	American Indian	Asian		Other/ Unknown	
Infectious Diseases	Tuberculosis		1	2	1	1	0	0	5	
	Syphilis		0	0	0	0	0	0	0	
	HIV		33	26	9	5	1	0	74	
Cancer	Stomach		78	23	6	0	2	0	109	
	Colon		401	47	19	2	5	0	474	
	Pancreas		278	40	14	4	7	1	344	
	Lung		1,190	63	57	2	21	0	1,333	
	Breast		353	40	27	3	3	0	426	
	Uterine & Ovarian		182	41	8	4	5	1	241	
	Prostate		257	25	13	1	8	0	304	
	Urinary		214	21	4	5	5	0	249	
	Lymphoma		220	16	2	2	2	0	242	
	Leukemia		184	21	7	2	4	0	218	
	Other		1,125	148	46	7	16	2	1,344	
	All Cancer		4,482	485	203	32	78	4	5,284	
	Diabetes and Alzheimer's		Diabetes	422	126	36	27	12	0	623
			Alzheimer's	1,307	87	48	3	12	1	1,458
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	311	46	17	2	8	1	385	
		Ischemic Heart Disease	3,728	309	141	27	37	7	4,249	
		Other Heart Disease	729	59	32	10	6	2	838	
		All Heart Disease	4,768	414	190	39	51	10	5,472	
	Other Cardio-vascular	Primary Hypertension	272	35	15	0	4	0	326	
		Cerebrovascular	915	125	47	12	17	2	1,118	
		Atherosclerosis	79	6	1	0	1	0	87	
		Other Circulatory	161	20	3	1	3	0	188	
		All Other Cardiovascular	1,427	186	66	13	25	2	1,719	
Other Respiratory Diseases		Influenza & Pneumonia	431	78	14	11	5	0	539	
		Chronic Lower Respiratory	1,418	48	24	6	6	2	1,504	
GI & Urinary		Peptic Ulcer	24	0	1	0	0	0	25	
		Liver Disease	261	82	10	26	1	2	382	
		Nephritis	127	30	8	6	2	0	173	
Pregnancy & Early Life		Pregnancy	2	3	1	0	0	0	6	
		Perinatal Conditions	48	93	22	4	14	2	183	
		Congenital Malformations	63	57	6	2	5	0	133	
		SIDS	5	9	8	0	0	0	23	
Other Diseases		Symptoms, Signs	382	35	24	2	4	0	447	
		Other Diseases	3,080	380	117	52	56	5	3,690	
External Causes		Motor Vehicle Collisions	260	121	23	15	7	1	427	
		All Other Accidents	1,005	151	51	26	14	6	1,253	
		Suicide	443	57	16	7	12	0	535	
		Homicide	84	140	41	9	3	0	277	
		Other External Causes	45	17	1	4	1	1	69	
		All External Causes	1,837	486	132	61	37	8	2,561	
Unknown			1	0	0	0	0	0	1	
Total			20,119	2,627	920	290	309	36	24,301	

Note: The number of cases for the Selected Underlying Causes of Death may differ from the numbers reported by ADHS.
See Technical Notes for further explanation

Maricopa County 2008 Mortality (Death) Statistics

Table 2.03b Selected Underlying Causes of Death by Race/Ethnicity

Crude Death Rate per 100,000 Residents

Cause		Race/Ethnicity						Total	
		White	Hispanic	African American	American Indian	Asian	Other/ Unknown		
Infectious Diseases	Tuberculosis	0.0	0.2	0.6	1.6	0	-	0.1	
	Syphilis	0	0	0	0	0	-	0	
	HIV	1.4	2.1	5.4	7.8	0.9	-	1.9	
Cancer	Stomach	3.4	1.9	3.6	0.0	1.7	-	2.8	
	Colon	17.2	3.8	11.4	3.1	4.3	-	12.0	
	Pancreas	11.9	3.3	8.4	6.2	6.0	-	8.7	
	Lung	51.1	5.1	34.3	3.1	17.9	-	33.7	
	Breast	15.2	3.3	16.2	4.7	2.6	-	10.8	
	Uterine & Ovarian ¹	15.4	7.1	9.8	12.0	8.2	-	12.3	
	Prostate ¹	22.4	3.9	15.3	3.3	14.2	-	15.3	
	Urinary	9.2	1.7	2.4	7.8	4.3	-	6.3	
	Lymphoma	9.5	1.3	1.2	3.1	1.7	-	6.1	
	Leukemia	7.9	1.7	4.2	3.1	3.4	-	5.5	
	Other	48.4	12.1	27.6	10.9	13.6	-	34.0	
	All Cancer	192.6	39.6	122.0	49.8	66.5	-	133.6	
Diabetes and Alzheimer's	Diabetes	18.1	10.3	21.6	42.0	10.2	-	15.8	
	Alzheimer's	56.2	7.1	28.8	4.7	10.2	-	36.9	
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	13.4	3.8	10.2	3.1	6.8	-	9.7
		Ischemic Heart Disease	160.2	25.2	84.7	42.0	31.5	-	107.4
		Other Heart Disease	31.3	4.8	19.2	15.6	5.1	-	21.2
		All Heart Disease	204.9	33.8	114.2	60.7	43.5	-	138.4
	Other Cardiovascular	Primary Hypertension	11.7	2.9	9.0	0	3.4	-	8.2
		Cerebrovascular	39.3	10.2	28.2	18.7	14.5	-	28.3
		Atherosclerosis	3.4	0.5	0.6	0	0.9	-	2.2
		Other Circulatory	6.9	1.6	1.8	1.6	2.6	-	4.8
		All Other Cardiovascular	61.3	15.2	39.7	20.2	21.3	-	43.5
Other Respiratory Diseases	Influenza & Pneumonia	18.5	6.4	8.4	17.1	4.3	-	13.6	
	Chronic Lower Respiratory	60.9	3.9	14.4	9.3	5.1	-	38.0	
GI & Urinary	Peptic Ulcer	1.0	0	0.6	0	0	-	0.6	
	Liver Disease	11.2	6.7	6.0	40.5	0.9	-	9.7	
	Nephritis	5.5	2.5	4.8	9.3	1.7	-	4.4	
Pregnancy & Early Life	Pregnancy ¹	0.2	0.5	1.2	0	0	-	0.3	
	Perinatal Conditions	2.1	7.6	13.2	6.2	11.9	-	4.6	
	Congenital Malformations	2.7	4.7	3.6	3.1	4.3	-	3.4	
	SIDS ²	0.2	0.3	2.4	0	0	-	0.4	
Other Diseases	Symptoms, Signs	16.4	2.9	14.4	3.1	3.4	-	11.3	
	Other Diseases	132.4	31.0	70.3	81.0	47.7	-	93.3	
External Causes	Motor Vehicle Collisions	11.2	9.9	13.8	23.4	6.0	-	10.8	
	All Other Accidents	43.2	12.3	30.7	40.5	11.9	-	31.7	
	Suicide	19.0	4.7	9.6	10.9	10.2	-	13.5	
	Homicide	3.6	11.4	24.6	14.0	2.6	-	7.0	
	Other External Causes	1.9	1.4	0.6	6.2	0.9	-	1.7	
	All External Causes	79.0	39.7	79.3	95.0	31.5	-	64.8	
Unknown		0.0	0	0	0	0	-	0.0	
Total		864.8	214.6	552.9	451.5	263.4	-	614.5	

Note: The rates for the Selected Underlying Causes of Death may differ from the rates reported by ADHS. See Technical Notes for further explanation

¹ Uterine & ovarian cancer and pregnancy rates are per 100,000 females; prostate cancer rates are per 100,000 males.

² Sudden Infant Death Syndrome (SIDS) rates are per 1,000 live births

Maricopa County 2008 Mortality (Death) Statistics

**Table 2.04a Selected Underlying Causes of Death by Age Group
Number of Cases**

Cause		Age Group													Total
		<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Infectious Diseases	Tuberculosis	0	0	0	0	0	0	0	0	1	1	0	2	1	5
	Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	HIV	0	0	0	0	0	0	12	27	25	8	2	0	0	74
Cancer	Stomach	0	0	0	0	0	0	3	4	9	8	40	29	16	109
	Colon	0	0	0	0	0	1	3	13	42	81	96	127	111	474
	Pancreas	0	0	0	0	0	0	1	4	28	52	107	107	44	344
	Lung	0	0	0	0	0	0	3	13	78	248	397	451	143	1,333
	Breast	0	0	0	0	0	0	7	16	66	90	90	101	56	426
	Uterine & Ovarian	0	0	0	0	0	0	5	14	27	56	58	51	30	241
	Prostate	0	0	0	0	0	0	0	0	6	29	61	117	91	304
	Urinary	0	0	1	0	0	0	0	4	16	40	51	77	60	249
	Lymphoma	0	0	0	0	2	0	4	6	11	31	49	78	61	242
	Leukemia	0	2	2	2	2	3	5	10	10	30	47	63	42	218
	Other Cancer	0	4	2	4	4	2	21	46	118	268	317	357	201	1,344
	All Cancer	0	6	5	6	8	6	52	130	411	933	1,313	1,558	855	5,284
Diabetes and Alzheimer's	Diabetes	0	0	0	1	0	4	7	16	58	111	139	176	111	623
	Alzheimer's	0	0	0	0	0	0	0	0	3	13	70	399	973	1,458
Major Cardio-vascular Diseases	Heart Disease	Hypertensive Heart Disease	0	0	0	1	0	2	8	38	47	45	88	156	385
		Ischemic Heart Disease	0	0	0	0	1	7	56	214	458	661	1,218	1,634	4,249
		Other Heart Disease	7	2	0	1	2	17	18	56	68	111	210	343	838
		All Hear Disease	7	2	0	1	3	26	82	308	573	817	1,516	2,133	5,472
	Other Cardio-vascular	Primary Hypertension	0	0	0	0	0	1	5	8	20	42	107	143	326
		Cerebrovascular	1	1	2	2	0	9	19	58	85	154	329	458	1,118
		Atherosclerosis	0	0	0	0	0	0	0	0	2	8	27	50	87
		Other Circulatory	0	0	0	0	1	2	3	12	20	30	68	52	188
		All Other Cardiovascular	1	1	2	2	1	12	27	78	127	234	531	703	1,719

(Continued)

Maricopa County 2008 Mortality (Death) Statistics

Cause		Age Group														Total
		<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unknown	
Other Respiratory Diseases	Influenza & Pneumonia	5	3	1	0	2	3	9	9	30	59	71	142	205	0	539
	Chronic Lower Respiratory	0	0	0	2	0	2	1	6	47	139	325	539	443	0	1,504
GI & Urinary	Peptic Ulcer	0	0	0	0	0	0	0	0	2	5	4	4	10	0	25
	Liver Disease	0	0	0	0	0	0	6	32	109	107	65	50	13	0	382
	Nephritis	1	0	0	0	1	0	1	4	6	27	31	60	42	0	173
Pregnancy & Early Life	Pregnancy	0	0	0	0	0	1	4	1	0	0	0	0	0	0	6
	Perinatal Conditions	182	1	0	0	0	0	0	0	0	0	0	0	0	0	183
	Congenital Malformations	90	5	2	2	2	6	4	2	3	6	7	1	3	0	133
	SIDS	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Other Diseases	Symptoms, Signs	26	2	1	0	1	2	7	9	10	20	28	71	270	0	447
	Other Diseases	23	17	11	4	10	16	49	117	281	417	541	1,026	1,178	0	3,690
External Causes	Motor Vehicle Collisions	2	4	4	6	40	60	67	60	63	59	34	18	10	0	427
	All Other Accidents	14	21	2	6	25	52	101	146	206	119	79	176	306	0	1,253
	Suicide	0	0	0	5	24	34	67	94	131	86	46	29	19	0	535
	Homicide	4	5	0	3	38	44	81	40	38	13	3	5	3	0	277
	Other External Causes	4	3	1	1	2	1	10	17	14	7	4	4	1	0	69
	All External Causes	24	33	7	21	129	191	326	357	452	284	166	232	339	0	2,561
Unknown		0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total		381	70	29	39	157	235	516	819	1,825	2,830	3,813	6,307	7,279	1	24,301

Note: The number of cases for the Selected Underlying Causes of Death may differ from the numbers reported by ADHS. See Technical Notes for further explanation

Maricopa County 2008 Mortality (Death) Statistics

Table 2.04b Selected Underlying Causes of Death by Age Group
Crude Death Rate per 100,000 Residents

Cause															Total	
			0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+		Unknown
Infectious Diseases	Tuberculosis		0	0	0	0	0	0	0	0.2	0.3	0	1.3	1.5	-	0.1
	Syphilis		0	0	0	0	0	0	0	0	0	0	0	0	-	0
	HIV		0	0	0	0	0	2.0	4.7	4.8	2.0	0.8	0.0	0.0	-	1.9
Cancer	Stomach		0	0	0	0	0	0.5	0.7	1.7	2.0	17.0	19.4	24.3	-	2.8
	Colon		0	0	0	0	0.4	0.5	2.3	8.1	20.6	40.7	85.0	168.7	-	12.0
	Pancreas		0	0	0	0	0	0.2	0.7	5.4	13.2	45.4	71.6	66.9	-	8.7
	Lung		0	0	0	0	0	0.5	2.3	15.1	63.2	168.4	301.8	217.4	-	33.7
	Breast		0	0	0	0	0	1.2	2.8	12.8	22.9	38.2	67.6	85.1	-	10.8
	Uterine & Ovarian ¹		0	0	0	0	0	0.8	2.5	5.2	14.3	24.6	34.1	45.6	-	6.1
	Prostate ¹		0	0	0	0	0	0	0	1.2	7.4	25.9	78.3	138.3	-	7.7
	Urinary		0	0.3	0	0	0	0	0.7	3.1	10.2	21.6	51.5	91.2	-	6.3
	Lymphoma		0	0	0	0.8	0	0.7	1.1	2.1	7.9	20.8	52.2	92.7	-	6.1
	Leukemia		0.6	0.7	0.7	0.8	1.2	0.8	1.8	1.9	7.6	19.9	42.2	63.8	-	5.5
	Other Cancer		1.2	0.7	1.4	1.5	0.8	3.5	8.1	22.9	68.3	134.4	238.9	305.5	-	34.0
	All Cancer		1.8	1.6	2.1	3.0	2.4	8.7	22.8	79.6	237.7	556.8	1042.5	1299.6	-	133.6
	Diabetes and Alzheimer's	Diabetes		0	0	0.4	0	1.6	1.2	2.8	11.2	28.3	58.9	117.8	168.7	-
Alzheimer's		0	0	0	0	0	0	0	0.6	3.3	29.7	267.0	1479.0	-	36.9	
Major Cardio-vascular Diseases		Heart Disease	Hypertensive Heart Disease	0	0	0	0.4	0	0.3	1.4	7.4	12.0	19.1	58.9	237.1	-
	Ischemic Heart Disease		0	0	0	0	0.4	1.2	9.8	41.5	116.7	280.3	815.0	2483.7	-	107.4
	Other Heart Disease		2.7	0	0.4	0.8	1.2	2.9	3.2	10.8	17.3	47.1	140.5	521.4	-	21.2
	All Heart Disease		2.7	0	0.4	1.1	1.6	4.4	14.4	59.7	146.0	346.5	1014.4	3242.2	-	138.4
	Other Cardio-vascular	Primary Hypertension	0	0	0	0	0	0.2	0.9	1.5	5.1	17.8	71.6	217.4	-	8.2
		Cerebrovascular	0.6	0.7	0.7	0	0	1.5	3.3	11.2	21.7	65.3	220.2	696.2	-	28.3
		Atherosclerosis	0	0	0	0	0	0	0	0	0.5	3.4	18.1	76.0	-	2.2
		Other Circulatory	0	0	0	0.4	0	0.3	0.5	2.3	5.1	12.7	45.5	79.0	-	4.8
All Other Cardiovascular		0.6	0.7	0.7	0.4	0.0	2.0	4.7	15.1	32.4	99.2	355.3	1068.6	-	43.5	

(Continued)

Maricopa County 2008 Mortality (Death) Statistics

Cause															Total
		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Unknown	
Other Respiratory Diseases	Influenza & Pneumonia	2.4	0.3	0	0.8	1.2	1.5	1.6	5.8	15.0	30.1	95.0	311.6	-	13.6
	Chronic Lower Respiratory	0	0	0.7	0	0.8	0.2	1.1	9.1	35.4	137.8	360.7	673.4	-	38.0
GI & Urinary	Peptic Ulcer	0	0	0	0	0	0	0	0.4	1.3	1.7	2.7	15.2	-	0.6
	Liver Disease	0	0	0	0	0	1.0	5.6	21.1	27.3	27.6	33.5	19.8	-	9.7
	Nephritis	0.3	0	0	0.4	0	0.2	0.7	1.2	6.9	13.1	40.1	63.8	-	4.4
Pregnancy & Early Life	Pregnancy ¹	0	0	0	0	0.9	1.4	0.4	0	0	0	0	0	-	0.3
	Perinatal Conditions	55.1	0	0	0	0	0	0	0	0	0	0	0	-	4.6
	Congenital Malformations	28.6	0.7	0.7	0.8	2.4	0.7	0.4	0.6	1.5	3.0	0.7	4.6	-	3.4
	SIDS ²	0.4	0	0	0	0	0	0	0	0	0	0	0	-	0.4
Other Diseases	Symptoms, Signs	8.4	0.3	0	0.4	0.8	1.2	1.6	1.9	5.1	11.9	47.5	410.4	-	11.3
	Other Diseases	12.0	3.6	1.4	3.8	6.5	8.2	20.5	54.4	106.2	229.4	686.5	1790.6	-	93.3
External Causes	Motor Vehicle Collisions	1.8	1.3	2.1	15.0	24.2	11.3	10.5	12.2	15.0	14.4	12.0	15.2	-	10.8
	All Other Accidents	10.5	0.7	2.1	9.4	21.0	17.0	25.6	39.9	30.3	33.5	117.8	465.1	-	31.7
	Suicide	0	0	1.8	9.0	13.7	11.3	16.5	25.4	21.9	19.5	19.4	28.9	-	13.5
	Homicide	2.7	0	1.1	14.3	17.7	13.6	7.0	7.4	3.3	1.3	3.3	4.6	-	7.0
	Other External Causes	2.1	0.3	0.4	0.8	0.4	1.7	3.0	2.7	1.8	1.7	2.7	1.5	-	1.7
	All External Causes	17.2	2.3	7.5	48.5	77.0	54.8	62.7	87.6	72.4	70.4	155.2	515.3	-	64.8
Unknown		0	0	0	0	0	0	0	0	0.2	0	0	0	0	0.0
Total		135.7	9.6	13.9	59.0	94.7	86.7	143.8	353.5	721.0	1617.1	4220.3	11064.2	-	614.5

Note: The rates for the Selected Underlying Causes of Death may differ from the rates reported by ADHS. See Technical Notes for further explanation

¹ Uterine & ovarian cancer and pregnancy rates are per 100,000 females; prostate cancer rates are per 100,000 males.

² Sudden Infant Death Syndrome (SIDS) rates are per 1,000 live births.

Maricopa County 2008 Mortality (Death) Statistics

**Table 2.05a Selected Underlying Causes of Death by Sex
Number of Cases**

Cause		Gender		Total	
		Male	Female		
Infectious Diseases	Tuberculosis	2	3	5	
	Syphilis	0	0	0	
	HIV	63	11	74	
Cancer	Stomach	66	43	109	
	Colon	259	215	474	
	Pancreas	179	165	344	
	Lung	745	588	1,333	
	Breast	2	424	426	
	Uterine & Ovarian	0	241	241	
	Prostate	304	0	304	
	Urinary	175	74	249	
	Lymphoma	117	125	242	
	Leukemia	127	91	218	
	Other Cancer	810	534	1,344	
	All Cancer	2,784	2,500	5,284	
Diabetes and Alzheimer's	Diabetes	339	284	623	
	Alzheimer's	472	986	1,458	
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	179	206	385
		Ischemic Heart Disease	2,400	1,849	4,249
		Other Heart Disease	393	445	838
		All Heart Disease	2,972	2,500	5,472
	Other Cardio-vascular	Primary Hypertension	153	173	326
		Cerebrovascular	467	651	1,118
		Atherosclerosis	47	40	87
		Other Circulatory	109	79	188
		All Other Cardiovascular	776	943	1,719
Other Respiratory Diseases	Influenza & Pneumonia	267	272	539	
	Chronic Lower Respiratory	705	799	1,504	
GI & Urinary	Peptic Ulcer	16	9	25	
	Liver Disease	226	156	382	
	Nephritis	92	81	173	
Pregnancy & Early Life	Pregnancy	0	6	6	
	Perinatal Conditions	100	83	183	
	Congenital Malformations	59	74	133	
	SIDS	13	9	22	
Other Diseases	Symptoms, Signs	165	282	447	
	Other Diseases	1,764	1,926	3,690	
External Causes	Motor Vehicle Collisions	320	107	427	
	All Other Accidents	723	530	1,253	
	Suicide	400	135	535	
	Homicide	228	49	277	
	Other External Causes	44	25	69	
	All External causes	1,715	846	2,561	
Unknown		1	0	1	
Total		12,531	11,770	24,301	

Note: The number of cases for the Selected Underlying Causes of Death may differ from the numbers reported by ADHS. See Technical Notes for further explanation

Maricopa County 2008 Mortality (Death) Statistics

Table 2.05b Selected Underlying Causes of Death by Sex
Crude Death Rate per 100,000 Residents

Cause			Gender		Total				
			Male	Female					
Infectious Diseases			Tuberculosis	0.1	0.2	0.1			
			Syphilis	0	0	0			
			HIV	3.2	0.6	1.9			
Cancer			Stomach	3.3	2.2	2.8			
			Colon	13.0	11.0	12.0			
			Pancreas	9.0	8.4	8.7			
			Lung	37.4	30.0	33.7			
			Breast	0.1	21.6	10.8			
			Uterine & Ovarian ¹	0	12.3	12.3			
			Prostate ¹	15.3	0	15.3			
			Urinary	8.8	3.8	6.3			
			Lymphoma	5.9	6.4	6.1			
			Leukemia	6.4	4.6	5.5			
			Other Cancer	40.6	27.2	34.0			
			All Cancer	139.7	127.4	133.6			
			Diabetes and Alzheimer's			Diabetes	17.0	14.5	15.8
						Alzheimer's	23.7	50.3	36.9
Major Cardiovascular Diseases	Heart Disease	Hypertensive Heart Disease	9.0	10.5	9.7				
		Ischemic Heart Disease	120.4	94.3	107.4				
		Other Heart Disease	19.7	22.7	21.2				
		All Heart Disease	149.1	127.4	138.4				
	Other Cardio-vascular	Primary Hypertension	7.7	8.8	8.2				
		Cerebrovascular	23.4	33.2	28.3				
		Atherosclerosis	2.4	2.0	2.2				
		Other Circulatory	5.5	4.0	4.8				
		All Other Cardiovascular	38.9	48.1	43.5				
Other Respiratory Diseases			Influenza & Pneumonia	13.4	13.9	13.6			
			Chronic Lower Respiratory	35.4	40.7	38.0			
GI & Urinary			Peptic Ulcer	0.8	0.5	0.6			
			Liver Disease	11.3	8.0	9.7			
			Nephritis	4.6	4.1	4.4			
Pregnancy & Early Life			Pregnancy ¹	0	0.3	0.3			
			Perinatal Conditions	5.0	4.2	4.6			
			Congenital Malformations	3.0	3.8	3.4			
			SIDS ²	0.4	0.3	0.4			
Other Diseases			Symptoms, Signs	8.3	14.4	11.3			
			Other Diseases	88.5	98.2	93.3			
External Causes			Motor Vehicle Collisions	16.1	5.5	10.8			
			All Other Accidents	36.3	27.0	31.7			
			Suicide	20.1	6.9	13.5			
			Homicide	11.4	2.5	7.0			
			Other External Causes	2.2	1.3	1.7			
			All External causes	86.1	43.1	64.8			
Unknown			0.1	0	0.0				
Total			628.8	600.0	614.5				

Note: The rates for the Selected Underlying Causes of Death may differ from the rates reported by ADHS.
See Technical Notes for further explanation

¹ Uterine & ovarian cancer and pregnancy rates are per 100,000 females; prostate cancer rates are per 100,000 males.

² Sudden Infant Death Syndrome (SIDS) rates are per 1,000 live births.

Maricopa County 2008 Mortality (Death) Statistics

**Table 2.06a Firearm, Drug, and Alcohol Induced and Related Deaths by Age Group
Number of Cases**

Age Group	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
0-9	2	1	2	2	0	0
10-14	5	2	2	2	0	0
15-19	50	16	17	17	0	2
20-24	63	34	36	36	2	9
25-34	98	94	95	96	15	34
35-44	77	133	157	158	50	86
45-54	82	175	210	225	134	200
55-64	62	81	100	130	107	152
65-74	36	21	21	62	46	63
75-84	26	9	11	65	28	43
85+	10	5	5	20	4	6
Total	511	571	656	813	386	595

Note: The number of cases for Maricopa County may differ from the numbers reported by ADHS. See Technical Notes for further explanation

**Table 2.06b Firearm, Drug, and Alcohol Induced and Related Deaths by Age Group
Crude Death Rate per 100,000 Residents**

Age Group	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
0-9	0.3	0.2	0.3	0.3	0	0
10-14	1.8	1	1	1	0	0
15-19	18.8	6.0	6.4	6.4	0	0.8
20-24	25.4	13.7	14.5	14.5	1	3.6
25-34	16.5	15.8	16.0	16.1	2.5	5.7
35-44	13.5	23.4	27.6	27.8	8.8	15.1
45-54	15.9	33.9	40.7	43.6	26.0	38.7
55-64	15.8	20.6	25.5	33.1	27.3	38.7
65-74	15.3	8.9	8.9	26.3	19.5	26.7
75-84	17.4	6.0	7.4	43.5	18.7	28.8
85+	15.2	7.6	7.6	30.4	6.1	9.1
Total	12.9	14.4	16.6	20.6	9.8	15.0

Note: The rates for Maricopa County may differ from the rates reported by ADHS. See Technical Notes for further explanation

Note: Firearm, drug, and alcohol induced and related deaths are also included in other categories, e.g., suicide, homicide or unintentional injuries.
Refer to the Technical Notes for a complete explanation of induced versus related deaths involving firearms, drugs, or alcohol.

Maricopa County 2008 Mortality (Death) Statistics

**Table 2.07a Firearm, Drug, and Alcohol Induced and Related Deaths by Race/Ethnicity
Number of Cases**

Race/Ethnicity	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
White	306	459	523	658	273	421
Hispanic	146	59	74	85	64	103
African American	44	32	36	43	13	21
American Indian	9	14	16	18	32	44
Asian	6	3	3	5	2	3
Other/ Unknown	0	4	4	4	2	3
Total	511	571	656	813	386	595

Note: The number of cases for Maricopa County may differ from the numbers reported by ADHS.
See Technical Notes for further explanation

**Table 2.07b Firearm, Drug, and Alcohol Induced and Related Deaths by Race/Ethnicity
Crude Death Rate per 100,000 Residents**

Race/Ethnicity	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
White	13.2	19.7	22.5	28.3	11.7	18.1
Hispanic	11.9	4.8	6.0	6.9	5.2	8.4
African American	26.4	19.2	21.6	25.8	7.8	12.6
American Indian,	14.0	21.8	24.9	28.0	49.8	68.5
Asian	5.1	3	3	4.3	1.7	2.6
Other/ Unknown	-	-	-	-	-	-
Total	12.9	14.4	16.6	20.6	9.8	15.0

Note: The rates for Maricopa County may differ from the rate reported by ADHS. See Technical Notes for further explanation

**Table 2.08a Firearm, Drug, and Alcohol Induced and Related Deaths by Sex
Number of Cases**

Gender	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
Male	428	346	405	502	277	438
Female	83	225	251	311	109	157
Total	511	571	656	813	386	595

Note: The number of cases for Maricopa County may differ from the numbers reported by ADHS.
See Technical Notes for further explanation

**Table 2.08b Firearm, Drug, and Alcohol Induced and Related Deaths by Sex
Crude Death Rate per 100,000 Residents**

Gender	Firearm Related	Drug Induced	Drug Related, Exc. Tobacco	Drug Related, Inc. Tobacco	Alcohol Induced	Alcohol Related
Male	21.5	17.4	20.3	25.2	13.9	22.0
Female	4.2	11.5	12.8	15.9	5.6	8.0
Total	12.9	14.4	16.6	20.6	9.8	15.0

Note: The rates for Maricopa County may differ from the rates reported by ADHS.
See Technical Notes for further explanation.

Note: Firearm, drug, and alcohol induced and related deaths are also included in other categories, e.g., suicide, homicide or unintentional injuries.
Refer to the Technical Notes for a complete explanation of induced versus related deaths involving firearms, drugs, or alcohol.

Maricopa County 2008 Mortality (Death) Statistics

Table 2.09 Heat Induced Deaths by Age, Race/Ethnicity, and Sex

2008 Deaths to Maricopa County Residents		
	Number Of Cases	Rate per 100,000 Residents
Race/Ethnicity		
White	15	0.6
Hispanic	5	0.4
African American	1	0.6
American Indian	2	3.1
Asian	0	0
Other/Unknown	0	-
Total	23	0.6
Age at Death		
0-4	1	0
5-9	0	0
10-14	0	0
15-19	0	0
20-24	0	0
25-34	2	0.3
35-44	2	0.4
45-54	7	1.4
55-64	3	0.8
65-74	3	1.3
75-84	4	2.7
85 and Older	1	1.5
Total	23	0.6
Sex		
Male	17	0.9
Female	6	0.3
Total	23	0.6

This table includes all known 2008 deaths with exposure to excessive natural heat as the underlying cause of death.

Maricopa County 2008 Mortality (Death) Statistics

Table 2.10 Number and Percent of Deaths by Race/Ethnicity and Marital Status

Marital Status	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Single	1,593	7.9	743	28.3	245	26.6	101	34.8	48	15.5	6	16.7	2,736	11.3
Married	8,026	39.9	941	35.8	277	30.1	77	26.6	164	53.1	4	11.1	9,489	39.0
Widowed	7,317	36.4	565	21.5	192	20.9	57	19.7	72	23.3	1	2.8	8,204	33.8
Divorced	3,022	15.0	357	13.6	186	20.2	55	19.0	25	8.1	2	5.6	3,647	15.0
Unknown	161	0.8	21	0.8	20	2.2	0	0	0	0	23	63.9	225	0.9
Total	20,119		2,627		920		290		309		36		24,301	

Table 2.11 Number and Percent of Deaths by Race/Ethnicity and Education Level

Educational Level	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian.		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	184	0.9	296	11.3	59	6.4	14	4.8	38	12.3	6	16.7	597	2.5
Grade 1-6	264	1.3	590	22.5	45	4.9	14	4.8	22	7.1	0	0	935	3.8
Some High School	2,299	11.4	642	24.4	144	15.7	70	24.1	47	15.2	1	2.8	3,203	13.2
High School Grad	8,525	42.4	664	25.3	319	34.7	116	40.0	71	23.0	0	0	9,695	39.9
Some College	4,322	21.5	239	9.1	191	20.8	56	19.3	42	13.6	1	2.8	4,851	20.0
College Graduate	2,439	12.1	79	3.0	68	7.4	9	3.1	50	16.2	1	2.8	2,646	10.9
Graduate School	1,731	8.6	48	1.8	55	6.0	8	2.8	36	11.7	1	2.8	1,879	7.7
Unknown	355	1.8	69	2.6	39	4.2	3	1.0	3	1.0	26	72.2	495	2.0
Total	20,119		2,627		920		290		309		36		24,301	

Table 2.12 Number and Percent of Deaths by Race/Ethnicity and Sex

Sex	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Male	10,179	50.6	1,504	57.3	501	54.5	162	55.9	161	52.1	24	66.7	12,531	51.6
Female	9,940	49.4	1,123	42.7	419	45.5	128	44.1	148	47.9	12	33.3	11,770	48.4
Total	20,119		2,627		920		290		309		36		24,301	

Maricopa County 2008 Mortality (Death) Statistics

Table 2.13 Crude and Age Adjusted Rates for Selected Underlying Causes of Death by Race/Ethnicity

Crude Death Rates						
	White	Hispanic	African American	American Indian	Asian	Total
All Causes - Total	864.8	218.7	552.9	451.5	263.4	635.0
Heart Disease	204.9	34.5	114.2	60.7	43.5	138.4
All Cancer	192.6	40.4	122.0	49.8	66.5	133.6
Cerebrovascular	39.3	10.4	28.2	18.7	14.5	28.3
Unintentional Injuries ¹	53.6	22.2	43.9	60.7	17.9	41.9
Pneumonia & Influenza	18.5	6.5	8.4	17.1	4.3	13.6
Diabetes (single cause)	18.1	10.5	21.6	42.0	10.2	15.8
Suicide	19.0	4.7	9.6	10.9	10.2	13.5
Homicide	3.6	11.4	24.6	14.0	2.6	7.0
AIDS and HIV	1.4	2.2	5.4	7.8	0.9	1.9
Asthma	0.6	0.3	1.8	0	0	0.5
Drug Induced	13.2	12.2	26.4	14.0	5.1	14.4
Firearm Related	13.1	12.0	26.4	14.0	5.1	12.9
Alcohol Induced	11.7	5.3	7.8	49.8	1.7	9.8
Age Adjusted Death Rates						
	White	Hispanic	African American	American Indian	Asian	Total
All Causes	643.3	564.3	829.9	837.5	377.7	635.0
Heart Disease	146.6	115.9	182.6	146.7	69.4	142.8
Cancer	145.4	111.8	185.0	109.9	88.2	140.8
Cerebrovascular	27.9	34.1	47.7	43.8	23.6	29.3
Unintentional Injuries ¹	45.9	35.3	48.6	73.1	22.9	42.5
Pneumonia & Influenza	13.4	20.9	15.0	31.6	6.6	14.0
Diabetes (single cause)	13.6	33.0	37.0	81.1	16.8	16.5
Suicide	17.3	5.6	9.3	8.4	10.1	13.8
Homicide	3.5	10.9	23.8	14.4	3.6	7.0
AIDS and HIV	1.3	2.5	5.7	9.4	0.8	1.9
Asthma	0.4	0.7	1.7	0	0	0.5
Drug Induced	12.0	11.5	26.4	14.0	5.7	14.7
Firearm Related	11.9	11.4	26.4	14.0	5.7	13.2
Alcohol Induced	9.7	9.7	9.9	74.2	1.6	9.9

Note: The rates for Maricopa County may not match the rates reported by ADHS. See Technical Notes for further explanation.
 Note: The methods used for age adjusting may be found in the Technical Notes.

¹ Unintentional injuries listed in this table include 1,655 deaths from unintentional injuries, but do not include the 25 deaths from complications of medical or surgical care. The figure in this table is comparable to the HP 2010 goal for deaths due to unintentional injury. See Technical Notes for details

Maricopa County 2008 Mortality (Death) Statistics

Table 2.14 Death Rate Comparisons to Arizona, U.S. and Healthy People 2010 Goals for Selected Underlying Causes of Death

Causes of Death	2008 Maricopa County		Age Adjusted Rate (Deaths per 100,000 Residents)			
	No. of Indivi- duals	Crude Rate (Deaths per 100,000 Residents)	Maricopa County 2008	Arizona 2008	U.S. 2006/ 2007 ⁴	Healthy People 2010 Goal
All Causes	24,301	614.5	635.0	659.6	760.3	
Heart Disease	5,472	138.4	142.8	149.3	190.7	-
Coronary Heart Disease	4,606	120.3	117.4	118.3	-	166.0
All Other Heart Disease	866	18.1	25.4	-	-	-
All Cancers	5,284	133.6	140.8	145.5	177.5	159.9
Lung, Trachea, Bronchus Cancer	1,333	33.7	36.0	38.5	50.5	44.9
Female Breast Cancer ¹	424	21.6	20.7	19.8	23.5	22.3
Prostate Cancer ¹	304	15.3	19.2	19.1	23.5	28.8
All Other Cancers	3,223	81.4	-	-	-	-
Cerebrovascular Disease (Stroke)	1,118	28.3	29.3	30.3	41.6	48.0
Unintentional Injuries (Accidents) ²	1,655	41.9	42.5	44.7	37.8	17.5
Motor Vehicle	427	10.8	11.0	13.6	14.1	-
Falls	480	12.1	12.4	10.8	7.1	-
Accidental Poisoning	458	11.6	11.8	12.0	8.0	-
Drowning	45	1.1	1.1	1.2	1.1	-
All Other Unintentional Injuries	245	6.3	-	-	-	-
Pneumonia & Influenza	539	13.6	14.0	15.6	16.3	-
Diabetes	623	15.8	16.5	17.0	22.4	45.0
Suicide	535	13.5	13.8	14.8	10.8	5.0
Homicide	277	7.0	7.0	7.1	5.8	3.0
AIDS & HIV	74	1.9	1.9	1.8	3.6	0.7 ³
Asthma	20	0.5	0.5	-	1.1	-
Drug Induced	571	14.4	14.7	14.9	10.4	1.0
Firearm Related	511	12.9	13.2	13.5	10.1	4.1
Alcohol Induced	386	9.8	9.9	11.8	6.9	-

Note: The rates for Maricopa County may not match those reported by ADHS and may compare higher to the rates reported for Arizona. See Technical Notes for further explanation

1. The Maricopa County, Arizona, United States and HP 2010 Goal rates for female breast cancer are calculated as a rate per 100,000 women. The rates for prostate cancer are calculated as rates per 100,000 men.
2. Unintentional injuries listed in this table include 1,665 deaths from unintentional injuries, but do not include the 25 deaths from complications of medical or surgical care. The figure in this table is comparable to the HP 2010 goal. See Technical Notes for details.
3. When compared directly to the Healthy People 2010 Goals, Maricopa County data for HIV/AIDS and drug induced deaths are inflated by approximately 15-20% because a different method of classifying deaths was used to determine the Healthy People Goals.
4. Figures for female breast cancer and prostate cancer are final 2006 U.S. data. All other figures are preliminary 2007 U.S. data.

III. Maricopa County 2008 Communicable Disease Statistics

Maricopa County 2008 Communicable Disease Statistics

Table 3.01a Number of Cases of Selected Reportable Diseases by Race/Ethnicity

Disease		Race/Ethnicity						Total
		White	Hispanic	African American	American Indian	Asian	Unknown	
Vaccine Preventable	<i>H. influenzae</i>	29	12	5	2	0	8	56
	Measles	0	0	0	0	0	0	0
	Mumps	0	0	0	0	0	0	0
	Pertussis	11	8	0	0	1	0	20
Central Nervous System	Encephalitis Viral Other	4	2	1	0	0	0	7
	Meningitis Viral/Aseptic	315	183	30	8	12	23	571
	Meningococcal Meningitis	2	1	1	0	0	0	4
Enterics	Amebiasis	2	1	0	0	0	4	7
	Botulism	2	1	0	0	0	0	3
	Campylobacteriosis	183	157	7	23	2	268	640
	Cholera	0	0	0	0	0	0	0
	Cryptosporidiosis	38	11	3	5	0	14	71
	<i>E. Coli</i> O157.H7	20	13	0	0	0	4	37
	Giardiasis	28	14	0	2	2	13	59
	Listeriosis	3	1	0	0	0	1	5
	Salmonella Paratyphi	3	1	0	1	0	0	5
	Salmonellosis	248	130	22	29	3	132	564
	Shigellosis	78	199	19	16	3	65	380
	Typhoid Fever	1	0	0	0	1	0	2
Mycosis	Coccidioidomycosis	1,033	146	83	24	30	2,209	3,525
Zoonoses/ Vectorborne	Brucellosis	0	1	0	0	0	1	2
	Dengue	1	1	0	0	0	0	2
	Hantavirus Pulmonary Syndrome	0	0	0	0	0	0	0
	Lyme Disease	1	1	0	0	0	0	2
	Malaria	0	1	5	0	3	1	10
	West Nile Virus ¹	72	7	0	3	0	8	90
Hepatitides	Hepatitis A	26	12	1	0	1	30	70
	Hepatitis B (Acute) ¹	39	9	0	2	3	62	115
	Hepatitis D	0	0	0	0	0	0	0
Other	Legionellosis	13	3	1	0	2	2	21
	MRSA	84	23	6	26	0	776	915
	Strep Group A	46	15	1	3	0	47	112
	Strep Group B	8	10	3	1	0	12	34
	Strep Pneumo Invasive	247	80	35	21	3	188	574
	Toxic Shock Syndrome	0	0	0	0	0	1	1
	Vibrio Infection	5	4	0	1	0	2	12
	Yersiniosis	4	0	0	0	0	0	4
	Hansen's	0	0	0	0	0	0	0
Tuberculosis		17	48	12	4	26	2	109
Sexually Transmitted Disease	Genital Herpes	180	46	44	31	2	666	969
	Gonorrhea	362	154	310	71	7	1231	2135
	Syphilis-Primary and Secondary	137	71	20	4	2	0	234
	Syphilis-All Others	207	318	77	38	10	0	650
	Chlamydia	1619	1126	812	409	41	9419	13426
	HIV	206	96	51	10	5	8	376
	AIDS	211	106	51	11	5	2	386
All Others		68	33	5	6	3	175	290
Total		5,553	3,045	1,605	751	167	15,374	26,495

¹Figures for West Nile Virus and Hepatitis B (Acute) include confirmed and probable cases.

Maricopa County 2008 Communicable Disease Statistics

Table 3.01b Case Rates per 100,000 Residents for Selected Reportable Diseases by Race/Ethnicity

Disease		Race/Ethnicity						Total
		White	Hispanic	African American	American Indian	Asian	Unknown	
Vaccine Preventable	<i>H. influenzae</i>	1.2	1.0	3.0	3.1	0	-	1.4
	Measles	0	0	0	0	0	-	0
	Mumps	0	0	0	0	0	-	0
	Pertussis	0.5	0.7	0.0	0.0	0.9	-	0.5
Central Nervous System	Encephalitis Viral Other	0.2	0.2	0.6	0	0	-	0.2
	Meningitis Viral/Aseptic	13.5	15.0	18.0	12.5	10.2	-	14.4
	Meningococcal Meningitis	0.1	0.1	0.6	0	0	-	0.1
Enterics	Amebiasis	0.1	0.1	0	0	0	-	0.2
	Botulism	0.1	0.1	0.0	0.0	0.0	-	0.1
	Campylobacteriosis	7.9	12.8	4.2	35.8	1.7	-	16.2
	Cholera	0	0	0	0	0	-	0
	Cryptosporidiosis	1.6	0.9	1.8	7.8	0	-	1.8
	<i>E. Coli</i> O157.H7	0.9	1.1	0	0	0	-	0.9
	Giardiasis	1.2	1.1	0	3.1	1.7	-	1.5
	Listeriosis	0.1	0.1	0	0	0	-	0.1
	Salmonella Paratyphi	0.1	0.1	0	1.6	0	-	0.1
	Salmonellosis	10.7	10.6	13.2	45.2	2.6	-	14.3
	Shigellosis	3.4	16.3	11.4	24.9	2.6	-	9.6
	Typhoid Fever	0.0	0	0	0	0.9	-	0.1
Mycosis	Coccidioidomycosis	44.4	11.9	49.9	37.4	25.6	-	89.1
Zoonoses/ Vectorborne	Brucellosis	0	0.1	0	0	0	-	0.1
	Dengue	0.0	0.1	0	0	0	-	0.1
	Hantavirus Pulmonary Syndrome	0	0	0	0	0	-	0
	Lyme Disease	0	0.1	0	0	0	-	0.1
	Malaria	0	0.1	3.0	0.0	2.6	-	0.3
	West Nile Virus	3.1	0.6	0.0	4.7	0.0	-	2.3
Hepatitides	Hepatitis A	1.1	1.0	0.6	0.0	0.9	-	1.8
	Hepatitis B (Acute)	1.7	0.7	0.0	3.1	2.6	-	2.9
	Hepatitis D	0	0	0	0	0	-	0
Other	Legionellosis	0.6	0.2	0.6	0.0	1.7	-	0.5
	MRSA	3.6	1.9	3.6	40.5	0	-	23.1
	Strep Group A	2.0	1.2	0.6	4.7	0	-	2.8
	Strep Group B ¹	0.3	0.4	0.9	0.5	0	-	0.5
	Strep Pneumo Invasive	10.6	6.5	21.0	32.7	2.6	-	14.5
	Toxic Shock Syndrome	0	0	0	0	0	-	0.0
	Vibrio Infection	0.2	0.3	0	1.6	0	-	0.3
	Yersiniosis	0.2	0	0	0	0	-	0.1
	Hansen's	0	0	0	0	0	-	0
Tuberculosis		17	0.7	3.9	7.2	6.2	-	3.6
Sexually Transmitted Disease	Genital Herpes	7.7	3.8	26.4	48.3	1.7	-	24.5
	Gonorrhea	15.6	12.6	186.3	110.5	6.0	-	54.0
	Syphilis-Primary and Secondary	5.9	5.8	12.0	6.2	1.7	-	5.9
	Syphilis-All Others	8.9	26.0	46.3	59.2	8.5	-	16.4
	Chlamydia	69.6	92.0	488.0	636.8	34.9	-	339.5
	HIV	8.9	7.8	30.7	15.6	4.3	-	9.5
	AIDS	9.1	8.7	30.7	17.1	4.3	-	9.8
All Others		2.9	2.7	3.0	9.3	2.6	-	7.3
Total		238.7	248.8	964.6	1169.3	142.3	-	670.0

¹Rates for Streptococcal Group B Invasive in infants <90 days are per 1,000 live births by race of the mother.

Maricopa County 2008 Communicable Disease Statistics

Table 3.02a Number of Cases of Selected Reportable Diseases by Age Group

Disease		Age Group													Total
		<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-84	85+	Unk.	
Vaccine Preventable	<i>H. influenzae</i>	12	3	2	0	1	2	3	5	4	9	14	1	0	56
	Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mumps	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pertussis	7	0	4	4	1	0	1	1	0	1	1	0	0	20
Central Nervous System	Enceph Viral Other	0	0	0	0	0	0	0	1	1	3	1	1	0	7
	Meningitis Viral/Aseptic	109	10	41	38	39	50	97	72	52	30	29	4	0	571
	Meningococcal Meningitis	0	1	0	0	1	0	0	0	1	0	1	0	0	4
Enterics	Amebiasis	0	0	0	0	0	1	1	1	3	0	1	0	0	7
	Botulism	2	0	0	0	0	0	0	0	1	0	0	0	0	3
	Campylobacteriosis	27	107	61	36	31	31	80	87	69	53	51	6	1	640
	Cholera	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cryptosporidiosis	0	12	11	10	6	2	10	8	8	3	1	0	0	71
	<i>E. Coli</i> O157.H7	5	13	3	3	2	3	0	1	2	3	2	0	0	37
	Giardiasis	0	21	4	0	5	1	4	8	5	4	7	0	0	59
	Listeriosis	0	0	0	0	0	0	0	0	1	3	1	0	0	5
	Salmonella Paratyphi	0	0	0	1	1	0	2	0	1	0	0	0	0	5
	Salmonellosis	65	73	35	29	22	41	70	58	74	39	50	8	0	564
	Shigellosis	12	146	80	30	17	15	29	21	9	10	8	2	1	380
	Typhoid	1	0	0	0	0	0	1	0	0	0	0	0	0	2
Mycosis	Coccidioidomycosis	9	13	24	58	130	139	416	579	614	574	848	116	5	3,525
Zoonoses/ Vectorborne	Brucellosis	0	0	0	1	0	0	1	0	0	0	0	0	0	2
	Dengue	0	0	0	0	0	0	1	0	0	1	0	0	0	2
	Hantavirus Pulm. Syn.	0	0	0	0	0	0	0	0	0	0	0		0	0
	Lyme Disease	0	1	0	0	1	0	0	0	0	0	0	0	0	2
	Malaria	1	1	0	1	0	1	5	0	1	0	0	0	0	10
	West Nile Virus ¹	0	0	0	0	2	5	4	17	18	18	20	6	0	90
Hepatitides	Hepatitis A	1	1	0	0	1	7	11	14	17	8	6	4	0	70
	Hepatitis B ¹ (Acute)	0	0	0	0	2	4	27	36	27	14	5	0	0	115
	Hepatitis D	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	Legionellosis	0	0	0	0	0	1	1	2	5	6	5	1	0	21
	MRSA	24	4	2	2	4	12	52	83	143	189	329	65	6	915
	Strep Group A	5	6	5	2	1	4	8	12	15	24	18	12	0	112
	Strep Group B ²	34	0	0	0	0	0	0	0	0	0	0	0	0	34
	Strep Pneumo Invasive	36	38	13	7	11	9	46	50	89	106	126	43	0	574
	Toxic Shock Syndrome	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	Vibrio spp.	0	1	0	0	1	1	1	2	3	1	2	0	0	12
	Yersiniosis	0	0	0	0	0	1	0	0	1	1	1	0	0	4
	Hansen's Disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis		3	7	4	1	6	6	22	15	11	11	17	6	0	109
Sexually Transmitted Diseases	Genital Herpes	5	2	4	4	94	182	324	192	85	52	25	0	0	969
	Gonorrhea	1	2	0	13	460	685	605	250	87	21	11	0	0	2,135
	Syphilis-Primary and Secondary	0	0	0	0	11	21	74	73	46	8	1	0	0	234
	Syphilis – All Others	19	0	0	0	4	56	184	189	134	54	10	0	0	650
	Chlamydia	8	1	9	140	4,370	4,766	3,227	716	141	29	19	0	0	13,426
	HIV	0	0	0	0	21	68	121	102	53	9	2	0	0	376
	AIDS	0	0	0	0	3	19	93	153	88	23	7	0	0	386
All Others		90	44	8	7	5	6	28	20	26	12	33	13	0	290
Total		476	507	310	387	5,253	6,139	5,548	2,768	1,835	1,319	1,652	288	13	26,495

¹ Figures for West Nile Virus and Hepatitis B (Acute) include confirmed and probable cases.

² Streptococcal Group B Invasive disease is only reportable for cases in infants under 90 days.

Maricopa County 2008 Communicable Disease Statistics

Table 3.02b Case Rates per 100,000 Residents for Selected Reportable Diseases by Age Group

Disease		Age Group												Total
		0-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-84	85+	Unk.	
Vaccine Preventable	<i>H. influenzae</i>	4.5	0.7	0	0.4	0.8	0.5	0.9	0.8	2.3	3.6	1.5	-	1.4
	Measles	0	0	0	0	0	0	0	0	0	0	0	-	0
	Mumps	0	0	0	0	0	0	0	0	0	0	0	-	0
	Pertussis	2.1	1.3	1.4	0.4	0	0.2	0.2	0	0.3	0.3	0	-	0.5
Central Nervous System	Enceph Viral Other	0	0	0	0	0	0	0.2	0.2	0.8	0.3	1.5	-	0.2
	Meningitis Viral/Aseptic	35.8	13.5	13.5	14.7	20.2	16.3	12.6	10.1	7.6	7.5	6.1	-	14.4
	Meningococcal Meningitis	0.3	0	0	0.4	0	0	0	0.2	0	0.3	0	-	0.1
Enterics	Amebiasis	0	0	0	0	0.4	0.2	0.2	0.6	0	0.3	0	-	0.2
	Botulism	1	0	0	0	0	0	0	0.2	0	0	0	-	0.1
	Campylobacteriosis	40.3	20.1	12.8	11.7	12.5	13.4	15.3	13.4	13.5	13.2	9.1	-	16.2
	Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
	Cryptosporidiosis	3.6	3.6	3.6	2.3	0.8	1.7	1.4	1.5	0.8	0.3	0	-	1.8
	<i>E. Coli</i> O157.H7	5.4	1.0	1.1	0.8	1.2	0.0	0.2	0.4	0.8	0.5	0	-	0.9
	Giardiasis	6.3	1.3	0.0	1.9	0.4	0.7	1.4	1.0	1.0	1.8	0	-	1.5
	Listeriosis	0	0	0	0	0	0	0	0.2	0.8	0.3	0	-	0.1
	Salmonella Paratyphi	0.0	0.0	0.4	0.4	0.0	0.3	0.0	0.2	0.0	0.0	0.0	-	0.1
	Salmonellosis	41.5	11.5	10.3	8.3	16.5	11.8	10.2	14.3	9.9	13.0	12.2	-	14.3
	Shigellosis	47.5	26.4	10.7	6.4	6.0	4.9	3.7	1.7	2.5	2.1	3.0	-	9.6
	Typhoid	0.3	0	0	0	0	0.2	0	0	0	0	0	-	0.1
Mycosis	Coccidioidomycosis	6.6	7.9	20.7	48.9	56.0	69.9	101.7	118.9	146.2	220.1	176.3	-	89.1
Zoonoses/ Vectorborne	Brucellosis	0	0	0.4	0	0	0.2	0	0	0	0	0	-	0.1
	Dengue	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.3	0.0	0.0	-	0.1
	Hantavirus Pulm. Syn.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		-	0.0
	Lyme Disease	0.3	0	0	0.4	0	0	0	0	0	0	0	-	0.1
	Malaria	0.6	0	0.4	0	0.4	0.8	0	0.2	0	0	0	-	0.3
	West Nile Virus	0	0	0	0.8	2.0	0.7	3.0	3.5	4.6	5.2	9.1	-	2.3
													-	
Hepatitides	Hepatitis A	0.6	0	0	0.4	2.8	1.8	2.5	3.3	2.0	1.6	6.1	-	1.8
	Hepatitis B (Acute)	0	0	0	0.8	1.6	4.5	6.3	5.2	3.6	1.3	0.0	-	2.9
	Hepatitis D	0	0	0	0	0	0	0	0	0	0	0	-	0
Other	Legionellosis	0	0	0	0	0.4	0.2	0.4	1.0	1.5	1.3	1.5	-	0.5
	MRSA	8.4	0.7	0.7	1.5	4.8	8.7	14.6	27.7	48.1	85.4	98.8	-	23.1
	Strep Group A	3.3	1.6	0.7	0.4	1.6	1.3	2.1	2.9	6.1	4.7	18.2	-	2.8
	Strep Group B ¹	0.5	0	0	0	0	0	0	0	0	0	0	-	0.5
	Strep Pneumo Invasive	22.3	4.3	2.5	4.1	3.6	7.7	8.8	17.2	27.0	32.7	65.4	-	14.5
	Toxic Shock Syndrome	0	0	0	0	0	0.2	0	0	0	0	0	-	0.0
	Vibrio spp.	0.3	0.0	0.0	0.4	0.4	0.2	0.4	0.6	0.3	0.5	0	-	0.3
	Yersiniosis	0	0	0	0	0.4	0	0	0.2	0.3	0.3	0.0	-	0.1
	Hansen's Disease	0	0	0	0	0	0	0	0	0	0	0	-	0
Tuberculosis		3.0	1.3	0.4	2.3	2.4	3.7	2.6	2.1	2.8	4.4	9.1	-	2.8
Sexually Transmitted Diseases	Genital Herpes	2.1	1.3	1.4	35.4	73.4	54.4	33.7	16.5	13.2	6.5	0	-	24.5
	Gonorrhea	0.9	0	4.6	173.0	276.2	101.7	43.9	16.9	5.3	2.9	0	-	54.0
	Syphilis – Primary and Secondary	0	0	0	4.1	8.5	12.4	12.8	8.9	2.0	0.3	0	-	22.4
	Syphilis – All Others	5.7	0.0	0.0	1.5	22.6	30.9	33.2	26.0	13.8	2.6	0	-	5.9
	Chlamydia	2.7	3.0	49.8	1643.5	1921.5	542.3	125.8	27.3	7.4	4.9	0	-	339.5
	HIV	0	0	0	7.9	27.4	20.3	17.9	10.3	2.3	0.5	0	-	9.5
	AIDS	0	0	0	1.1	7.7	15.6	26.9	17.0	5.9	1.8	0	-	9.8
All Others		21.4	2.6	2.5	1.9	2.4	4.4	3.5	5.0	3.1	8.6	19.8	-	7.3
Total		295.8	102.2	137.8	1,975.6	2,475.0	932.4	486.2	355.4	336.0	428.8	437.8	-	670.0

¹ Rates for Streptococcal Group B Invasive in infants <90 days are per 1,000 live births.

Maricopa County 2008 Communicable Disease Statistics

Table 3.03a Number of Cases of Selected Reportable Diseases by Sex

Disease		Sex			Total
		Male	Female	Unk.	
Vaccine Preventable	<i>H. influenzae</i>	23	33	0	56
	Measles	0	0	0	0
	Mumps	0	0	0	0
	Pertussis	8	12	0	20
Central Nervous System	Enceph Viral Other	2	5	0	7
	Meningitis Viral/Aseptic	279	291	1	571
	Meningococcal	1	3	0	4
Enterics	Amebiasis	4	3	0	7
	Botulism	3	0	0	3
	Campylobacteriosis	323	316	1	640
	Cholera	0	0	0	0
	Cryptosporidiosis	41	29	1	71
	<i>E. Coli</i> O157.H7	14	23	0	37
	Giardiasis	36	23	0	59
	Listeriosis	2	3	0	5
	Salmonella Paratyphi	1	4	0	5
	Salmonellosis	256	305	3	564
	Shigellosis	184	196	0	380
	Typhoid	1	1	0	2
Mycosis	Coccidioidomycosis	1,791	1,715	19	3,525
Zoonoses/ Vectorborne	Brucellosis	2	0	0	2
	Dengue	2	0	0	2
	Hantavirus Pulm. Syn.	0	0	0	0
	Lyme Disease	2	0	0	2
	Malaria	7	3	0	10
	West Nile Virus ¹	49	41	0	90
Hepatitides	Hepatitis A	37	32	1	70
	Hepatitis B ¹ (Acute)	79	36	0	115
	Hepatitis D	0	0	0	0
Other	Legionellosis	11	10	0	21
	MRSA	533	368	14	915
	Strep Group A	54	58	0	112
	Strep Group B	15	19	0	34
	Strep Pneumo Invasive	323	250	1	574
	Toxic Shock Syndrome	0	1	0	1
	Vibrio spp.	10	2	0	12
	Yersiniosis	3	1	0	4
	Hansen's Disease	0	0	0	0
Tuberculosis		44	65	0	109
Sexually Transmitted Diseases	Genital Herpes	336	633	0	969
	Gonorrhea	1,177	958	0	2,135
	Syphilis – Primary and Secondary	210	24	0	234
	Syphilis – All Others	193	457	0	650
	Chlamydia	3,351	10,075	0	13,426
	HIV	330	46	0	376
	AIDS	331	55	0	386
All Others		126	154	10	290
Total		10,194	16,250	51	26,495

¹ Figures for West Nile Virus and Hepatitis B (Acute) include confirmed and probable cases.

Maricopa County 2008 Communicable Disease Statistics

Table 3.03b Case Rates per 100,000 Residents for Selected Reportable Diseases by Sex

Disease		Sex			Total
		Male	Female	Unk.	
Vaccine Preventable	<i>H. influenzae</i>	1.2	1.7	-	1.4
	Measles	0	0	-	0
	Mumps	0	0	-	0
	Pertussis	0.4	0.6	-	0.5
Central Nervous System	Enceph Viral Other	0.1	0.3	-	0.2
	Meningitis Viral/Aseptic	14.0	14.8	-	14.4
	Meningococcal Meningitis	0.1	0.2	-	0.1
Enterics	Amebiasis	0.2	0.2	-	0.2
	Botulism	0.2	0	-	0.1
	Campylobacteriosis	16.2	16.1	-	16.2
	Cholera	0	0	-	0
	Cryptosporidiosis	2.1	1.5	-	1.8
	<i>E. Coli</i> O157.H7	0.7	1.2	-	0.9
	Giardiasis	1.8	1.2	-	1.5
	Listeriosis	0.1	0.2	-	0.1
	Salmonella Paratyphi	0.1	0.2	-	0.1
	Salmonellosis	12.8	15.5	-	14.3
	Shigellosis	9.2	10.0	-	9.6
	Typhoid	0.1	0.1	-	0.1
Mycosis	Coccidioidomycosis	89.9	87.4	-	89.1
Zoonoses/ Vectorborne	Brucellosis	0.1	0.0	-	0.1
	Dengue	0.1	0	-	0.1
	Hantavirus Pulm. Syn.	0	0	-	0
	Lyme Disease	0.1	0	-	0.1
	Malaria	0.4	0.2	-	0.3
	West Nile Virus	2.5	2.1	-	2.3
Hepatitides	Hepatitis A	1.9	1.6	-	1.8
	Hepatitis B (Acute)	4.0	1.8	-	2.9
	Hepatitis D	0	0	-	0
Other	Legionellosis	0.6	0.5	-	0.5
	MRSA	26.7	18.8	-	23.1
	Strep Group A	2.7	3.0	-	2.8
	Strep Group B ¹	0.5	0.6	-	0.5
	Strep Pneumo Invasive	16.2	12.7	-	14.5
	Toxic Shock Syndrome	0.0	0.1	-	0.0
	Vibrio spp.	0.5	0.1	-	0.3
	Yersiniosis	0.2	0.1	-	0.1
	Hansen's Disease	0	0	-	0
Tuberculosis		2.2	3.3	-	2.8
Sexually Transmitted Diseases	Genital Herpes	16.9	32.3	-	24.5
	Gonorrhea	59.1	48.8	-	54.0
	Syphilis – Primary and Secondary	10.5	1.2	-	5.9
	Syphilis – All Others	9.7	23.3	-	16.4
	Chlamydia	168.1	513.6	-	339.5
	HIV	16.6	2.3	-	9.5
	AIDS	16.6	2.8	-	9.8
All Others		6.3	7.9	-	7.3
Total		511.5	828.4	-	670.0

¹ Rates for Streptococcal Group B Invasive in infants <90 days are per 1,000 live births.

Maricopa County 2008 Communicable Disease Statistics

**Table 3.04 Case Rate Comparisons to Arizona, U.S. and Healthy People 2010
Goals for Selected Diseases**

Disease	2008 Maricopa County		Crude Case Rate (Cases per 100,000 Residents)		
	Number of cases	Crude Case Rate (Cases per 100,000 Residents)	Arizona 2008	U.S. 2007	Healthy People 2010 Goal
Salmonellosis	564	14.3	17.5	16.03	6.8
AIDS	386	9.8	-	12.53	1.0
HIV	376	9.5	8.0	-	-
Tuberculosis	109	2.8	3.5	4.4	1.0
Hepatitis B (Acute Cases Only)	115	2.9	2.5	1.51	-
Hepatitis A	70	1.8	1.8	1.0	4.5
Syphilis (Primary and Secondary)	234	5.9	4.9	3.83	0.2 ¹
Pertussis	20	0.5	3.3	3.49	0.7
Rubella	0	0	0.0	0	0
Mumps	0	0	0.1	0.27	0
Measles	0	0	0.3	0.01	0

¹ The Healthy People 2010 goal for primary and secondary syphilis includes only transmission of syphilis that occurred in the United States. It is likely that Maricopa County includes some cases acquired outside of the country.

IV. Maricopa County 2008 Natality (Birth) Statistics

Maricopa County 2008 Natality (Birth) Statistics

Table 4.01 Number and Percent of Births by Age & Race/Ethnicity of Mother

Age Group of Mother	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<15	6	0.0	75	0.3	7	0.2	4	0.2	1	0.0	0	0	93	0.1
15-19	1,617	6.1	4,678	16.3	456	14.6	282	15.4	68	2.8	16	7.6	7,117	11.4
20-24	5,484	20.8	8,263	28.8	954	30.4	582	31.7	266	10.9	28	13.3	15,577	24.9
25-29	8,114	30.8	7,615	26.5	875	27.9	507	27.6	707	28.9	48	22.9	17,866	28.5
30-34	6,855	26.0	5,216	18.2	512	16.3	313	17.0	841	34.4	57	27.1	13,794	22.0
35-39	3,521	13.4	2,399	8.4	273	8.7	127	6.9	471	19.3	28	13.3	6,819	10.9
40-44	669	2.5	457	1.6	49	1.6	22	1.2	84	3.4	26	12.4	1,307	2.1
45+	51	0.2	20	0.1	8	0.3	0	0	6	0.2	5	2.4	90	0.1
Unknown	0	0	1	0.0	0	0	0	0	0	0	2	1.0	3	0.0
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Table 4.02 Number and Percent of Births by Marital Status & Race/Ethnicity of Mother

Marital Status of Mother	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Married	18,837	71.6	11,877	41.3	1,088	34.7	467	25.4	2,034	83.2	158	75.2	34,461	55.0
Single	7,267	27.6	16,575	57.7	2,019	64.4	1,341	73.0	402	16.4	52	24.8	27,656	44.1
Refused	149	0.6	200	0.7	22	0.7	22	1.2	5	0.2	0	0	398	0.6
Divorced	14	0.1	6	0.0	1	0.0	0	0	1	0.0	0	0	22	0.0
Unknown	50	0.2	66	0.2	4	0.1	7	0.4	2	0.1	0	0	129	0.2
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Table 4.03 Number and Percent of Births by Educational Level & Race/Ethnicity of Mother

Education Level of Mother	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
< 6th Grade	43	0.2	867	3.0	63	2.0	2	0.1	33	1.4	3	1.4	1,011	1.6
6-11th Grade	2,118	8.0	13,028	45.4	590	18.8	519	28.3	119	4.9	21	10.0	16,395	26.2
HS Diploma	6,426	24.4	8,845	30.8	1,138	36.3	621	33.8	461	18.9	38	18.1	17,529	28.0
College+	17,627	67.0	5,740	20.0	1,287	41.1	678	36.9	1,807	73.9	47	22.4	27,186	43.4
Unknown	103	0.4	244	0.8	56	1.8	17	0.9	24	1.0	101	48.1	545	0.9
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

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Table 4.04 Number and Percent of Births by Method of Payment & Race/ Ethnicity of Mother

Method of Payment	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
AHCCCS	7,387	28.1	21,752	75.7	1,966	62.7	1,167	63.5	565	23.1	135	64.3	32,972	52.6
Indian Health Service	22	0.1	18	0.1	4	0.1	220	12.0	2	0.1	1	0.5	267	0.4
Private Insurance	18,044	68.6	6,222	21.7	1,082	34.5	418	22.8	1,788	73.2	56	26.7	27,610	44.1
Self	724	2.8	610	2.1	61	1.9	19	1.0	77	3.2	10	4.8	1,501	2.4
Unknown	140	0.5	122	0.4	21	0.7	13	0.7	12	0.5	8	3.8	316	0.5
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Table 4.05 Trimester of First Prenatal Care & Race/ Ethnicity of Mother

Trimester of First Prenatal Care	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
First	23,978	91.1	21,950	76.4	2,510	80.1	1,320	71.9	2,165	88.6	133	63.3	52,056	83.1
Second	1,819	6.9	5,158	18.0	464	14.8	370	20.1	191	7.8	44	21.0	8,046	12.8
Third	324	1.2	976	3.4	95	3.0	92	5.0	57	2.3	17	8.1	1,561	2.5
None	171	0.6	615	2.1	60	1.9	54	2.9	31	1.3	13	6.2	944	1.5
Unknown	25	0.1	25	0.1	5	0.2	1	0.1	0	0	3	1.4	59	0.1
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Table 4.06 Number and Percent of Prenatal Care Visits & Race/Ethnicity of Mother

Number of Prenatal Care Visits	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	171	0.6	615	2.1	60	1.9	54	2.9	31	1.3	13	6.2	944	1.5
1 to 4	347	1.3	1,054	3.7	107	3.4	141	7.7	56	2.3	17	8.1	1,722	2.7
5 to 8	2,687	10.2	5,277	18.4	553	17.6	457	24.9	294	12.0	47	22.4	9,315	14.9
9 to 12	13,416	51.0	13,544	47.2	1,489	47.5	845	46.0	1,264	51.7	75	35.7	30,633	48.9
13 to 16	8,078	30.7	7,460	26.0	768	24.5	272	14.8	657	26.9	46	21.9	17,281	27.6
17 or More	1,589	6.0	750	2.6	148	4.7	67	3.6	141	5.8	10	4.8	2,705	4.3
Unknown	29	0.1	24	0.1	9	0.3	1	0.1	1	0.0	2	1.0	66	0.1
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

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**Table 4.07 Adequacy of Prenatal Care & Race /Ethnicity of Mother
Singleton Births Only (Excludes Twins and Other Multiple Births)**

Adequacy of Prenatal Care	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Inadequate	1,489	5.9	4,591	16.3	429	14.3	381	21.2	213	9.1	60	29.9	7,163	11.8
Intermediate	3,041	12.0	4,610	16.4	414	13.8	386	21.4	292	12.4	27	13.4	8,770	14.4
Adequate	12,874	50.8	11,257	40.0	1,255	42.0	690	38.3	1,159	49.3	57	28.4	27,292	44.9
Adequate Plus	7,903	31.2	7,644	27.2	884	29.6	341	18.9	685	29.1	54	26.9	17,511	28.8
Information Missing	27	0.1	31	0.1	9	0.3	3	0.2	1	0.0	3	1.5	74	0.1
Total	25,334		28,133		2,991		1,801		2,350		201		60,810	

Table 4.08 Birthweight of Infant & Race/Ethnicity of Mother

Birthweight of Infant	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1500 Grams	280	1.1	297	1.0	76	2.4	25	1.4	35	1.4	1	0.5	714	1.1
1500-2499 Grams	1,501	5.7	1,556	5.4	295	9.4	103	5.6	194	7.9	14	6.7	3,663	5.8
2500-4249 Grams	23,668	89.9	26,024	90.6	2,704	86.3	1,622	88.3	2,174	89.0	191	91.0	56,383	90.0
>4249 Grams	868	3.3	845	2.9	59	1.9	87	4.7	41	1.7	3	1.4	1,903	3.0
Unknown	0	0	2	0.0	0	0	0	0	0	0	1	0.5	3	0.0
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Table 4.09 Preterm Births (Less than 37 Weeks Gestation) & Race/ Ethnicity of Mother

Gestational Estimate	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 34 Weeks	658	2.5	731	2.5	128	4.1	55	3.0	67	2.7	2	1.0	1,641	2.6
Late Preterm (34-36 Weeks)	2,072	7.9	2,168	7.5	330	10.5	153	8.3	197	8.1	22	10.5	4,942	7.9
37 Weeks or More	23,587	89.6	25,825	89.9	2,676	85.4	1,629	88.7	2,180	89.2	186	88.6	56,083	89.5
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Maricopa County 2008 Natality (Birth) Statistics

Table 4.10 Number and Percent of Births by Medical Risk Factor & Race/Ethnicity of Mother

Medical Risk Factor	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
No Medical Risk Present	17,803	67.6	21,379	74.4	2,016	64.3	871	47.4	1,744	71.4	120	57.1	43,933	70.1
Medical Risk Present	8,514	32.4	7,345	25.6	1,118	35.7	966	52.6	700	28.6	90	42.9	18,733	29.9
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Table 4.11 Number and Percent of Births by Type of Delivery & Race/Ethnicity of Mother

Type of Delivery	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/ Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Vaginal	18,323	69.6	21,504	74.9	2,149	68.6	1,358	73.9	1,640	67.1	166	79.0	45,140	72.0
Primary C-Section	4,736	18.0	3,692	12.9	558	17.8	276	15.0	518	21.2	24	11.4	9,804	15.6
Repeat C-Section	3,258	12.4	3,528	12.3	427	13.6	203	11.1	286	11.7	20	9.5	7,722	12.3
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

Table 4.12 Number and Percent of Births by Birth Attendee & Race/ Ethnicity of Mother

Birth Attendee	Race/Ethnicity												Total	
	White		Hispanic		African American		American Indian		Asian		Other/Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Medical Doctor	22,757	86.5	25,401	88.4	2,710	86.5	1,242	67.6	2,132	87.2	162	77.1	54,404	86.8
Doctor of Osteopathy	2,889	11.0	2,356	8.2	339	10.8	117	6.4	268	11.0	39	18.6	6,008	9.6
Certified Nurse Midwife	313	1.2	882	3.1	67	2.1	469	25.5	38	1.6	5	2.4	1,774	2.8
Midwife	303	1.2	47	0.2	13	0.4	4	0.2	5	0.2	1	0.5	373	0.6
Other	55	0.2	38	0.1	5	0.2	5	0.3	1	0.0	3	1.0	107	0.2
Total	26,317		28,724		3,134		1,837		2,444		210		62,666	

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Table 4.13 Number and Percent of Births by Marital Status & Age Group of Mother

Marital Status of Mother	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Married	0	0	819	11.5	5,881	37.8	11,161	62.5	10,276	74.5	5,261	77.2	987	75.5	74	82.2	2	66.7	34,461	55.0
Single	93	100.0	6,287	88.3	9,584	61.5	6,498	36.4	3,381	24.5	1,489	21.8	307	23.5	16	17.8	1	33.3	27,656	44.1
Refused	0	0	10	0.1	83	0.5	147	0.8	101	0.7	49	0.7	8	0.6	0	0	0	0	398	0.6
Divorced	0	0	0	0	3	0.0	6	0.0	8	0.1	5	0.1	0	0	0	0	0	0	22	0.0
Unknown	0	0	1	0.0	26	0.2	54	0.3	28	0.2	15	0.2	5	0.4	0	0	0	0	129	0.2
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Table 4.14 Number and Percent of Births by Educational Level & Age Group of Mother

Educational Level of Mother	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
< 6th Grade	1	1.1	65	0.9	225	1.4	280	1.6	247	1.8	143	2.1	46	3.5	4	4.4	0	0	1,011	1.6
6-11th Grade	89	95.7	4,280	60.1	4,350	27.9	3,744	21.0	2,541	18.4	1,174	17.2	207	15.8	9	10.0	1	33.3	16,395	26.2
HS Diploma	0	0	2,290	32.2	6,249	40.1	4,852	27.2	2,631	19.1	1,255	18.4	239	18.3	13	14.4	0	0	17,529	28.0
College+	0	0	424	6.0	4,631	29.7	8,845	49.5	8,266	59.9	4,183	61.3	781	59.8	56	62.2	0	0	27,186	43.4
Unknown	3	3.2	58	0.8	122	0.8	145	0.8	109	0.8	64	0.9	34	2.6	8	8.9	2	66.7	545	0.9
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Table 4.15 Number and Percent of Births by Method of Payment & Age Group of Mother

Method of Payment	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
AHCCCS	82	88.2	5,989	84.2	10,665	68.5	8,443	47.3	5,050	36.6	2,273	33.3	448	34.3	21	23.3	1	33.3	32,972	52.6
Indian Health Service	0	0	38	0.5	85	0.5	77	0.4	50	0.4	14	0.2	3	0.2	0	0	0	0	267	0.4
Private Insurance	7	7.5	923	13.0	4,437	28.5	8,831	49.4	8,259	59.9	4,288	62.9	801	61.3	63	70.0	1	33.3	27,610	44.1
Self	4	4.3	130	1.8	301	1.9	432	2.4	376	2.7	204	3.0	49	3.7	4	4.4	1	33.3	1,501	2.4
Unknown	0	0	37	0.5	89	0.6	83	0.5	59	0.4	40	0.6	6	0.5	2	2.2	0	0	316	0.5
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

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Table 4.16 Trimester of First Prenatal Care & Age Group of Mother

Trimester of First Prenatal Care	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
First	47	50.5	5,084	71.4	12,266	78.7	15,320	85.7	12,150	88.1	5,969	87.5	1,140	87.2	79	87.8	1	33.3	52,056	83.1
Second	32	34.4	1,554	21.8	2,534	16.3	1,918	10.7	1,232	8.9	643	9.4	122	9.3	9	10.0	2	66.7	8,046	12.8
Third	12	12.9	312	4.4	492	3.2	373	2.1	230	1.7	120	1.8	20	1.5	2	2.2	0	0	1,561	2.5
None	2	2.2	161	2.3	272	1.7	244	1.4	166	1.2	76	1.1	23	1.8	0	0	0	0	944	1.5
Unknown	0	0	6	0.1	13	0.1	11	0.1	16	0.1	11	0.2	2	0.2	0	0	0	0	59	0.1
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Table 4.17 Number and Percent of Prenatal Care Visits & Age Group of Mother

Number of Prenatal Care Visits	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	2	2.2	161	2.3	272	1.7	244	1.4	166	1.2	76	1.1	23	1.8	0	0	0	0	944	1.5
1 to 4	7	7.5	329	4.6	562	3.6	406	2.3	263	1.9	121	1.8	30	2.3	3	3.3	1	33.3	1,722	2.7
5 to 8	32	34.4	1,521	21.4	2,710	17.4	2,399	13.4	1,638	11.9	842	12.3	169	12.9	4	4.4	0	0	9,315	14.9
9 to 12	27	29.0	3,438	48.3	7,545	48.4	8,823	49.4	6,846	49.6	3,302	48.4	617	47.2	33	36.7	2	66.7	30,633	48.9
13 to 16	25	26.9	1,503	21.1	3,985	25.6	5,202	29.1	4,135	30.0	2,043	30.0	352	26.9	36	40.0	0	0	17,281	27.6
17 or More	0	0	156	2.2	489	3.1	780	4.4	732	5.3	421	6.2	113	8.6	14	15.6	0	0	2,705	4.3
Unknown	0	0	9	0.1	14	0.1	12	0.1	14	0.1	14	0.2	3	0.2	0	0	0	0	66	0.1
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Maricopa County 2008 Natality (Birth) Statistics

**Table 4.18 Adequacy of Prenatal Care & Age Group of Mother
Singleton Births Only(Excludes Twins and Other Multiple Births)**

Adequacy of Prenatal Care	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Inadequate	33	35.5	1,410	20.0	2,238	14.6	1,728	10.0	1,078	8.1	540	8.3	128	10.5	6	8.5	2	66.7	7,163	11.8
Intermediate	13	14.0	1,110	15.8	2,406	15.7	2,438	14.1	1,822	13.7	824	12.7	151	12.4	6	8.5	0	0	8,770	14.4
Adequate	20	21.5	2,858	40.6	6,612	43.2	8,040	46.4	6,259	47.2	2,970	45.7	506	41.5	26	36.6	1	33.3	27,292	44.9
Adequate Plus	27	29.0	1,648	23.4	4,023	26.3	5,113	29.5	4,081	30.8	2,154	33.1	432	35.4	33	46.5	0	0	17,511	28.8
Information Missing	0	0	13	0.2	15	0.1	14	0.1	14	0.1	15	0.2	3	0.2	0	0	0	0	74	0.1
Total	93		7,039		15,294		17,333		13,254		6,503		1,220		71		3		60,810	

Table 4.19 Birthweight of Infant & Age Group of Mother

Birthweight of Infant	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1500 Grams	2	2.2	79	1.1	142	0.9	209	1.2	151	1.1	105	1.5	26	2.0	0	0	0	0	714	1.1
1500-2499 Grams	17	18.3	456	6.4	863	5.5	955	5.3	752	5.5	477	7.0	129	9.9	13	14.4	1	33.3	3,663	5.8
2500-4249 Grams	73	78.5	6,484	91.1	14,196	91.1	16,146	90.4	12,354	89.6	5,946	87.2	1,108	84.8	74	82.2	2	66.7	56,383	90.0
>4249 Grams	1	1.1	98	1.4	376	2.4	555	3.1	536	3.9	291	4.3	43	3.3	3	3.3	0	0	1,903	3.0
Unknown	0	0	0	0	0	0	1	0.0	1	0.0	0	0	1	0.1	0	0	0	0	3	0.0
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Table 4.20 Preterm Births (Less Than 37 Weeks Gestation) & Age Group of Mother

Gestational Estimate	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 34 Weeks	4	4.3	190	2.7	331	2.1	460	2.6	358	2.6	231	3.4	64	4.9	3	3.3	0	0	1,641	2.6
Late Preterm (34-36 Weeks)	12	12.9	533	7.5	1,216	7.8	1,313	7.3	1,053	7.6	607	8.9	184	14.1	24	26.7	0	0	4,942	7.9
37 Weeks or More	77	82.8	6,394	89.8	14,030	90.1	16,093	90.1	12,383	89.8	5,981	87.7	1,059	81.0	63	70.0	3	100.0	56,083	89.5
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Maricopa County 2008 Natality (Birth) Statistics

Table 4.21 Number and Percent of Births by Medical Risk Factor & Age Group of Mother

Medical Risk Factor	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
No Medical Risk Present	46	49.5	4,787	67.3	11,222	72.0	12,886	72.1	9,813	71.1	4,377	64.2	755	57.8	44	48.9	3	100.0	43,933	70.1
Medical Risk Present	47	50.5	2,330	32.7	4,355	28.0	4,980	27.9	3,981	28.9	2,442	35.8	552	42.2	46	51.1	0	0	18,733	29.9
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Table 4.22 Number and Percent of Births by Birth Attendee & Age Group of Mother

Birth Attendee	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Medical Doctor	76	81.7	6,088	85.5	13,334	85.6	15,517	86.9	12,119	87.9	6,031	88.4	1,155	88.4	82	91.1	2	66.7	54,404	86.8
Doctor of Osteopathy	8	8.6	703	9.9	1,572	10.1	1,725	9.7	1,256	9.1	615	9.0	121	9.3	7	7.8	1	33.3	6,008	9.6
Certified Nurse Midwife	9	9.7	311	4.4	588	3.8	465	2.6	282	2.0	104	1.5	15	1.1	0	0	0	0	1,774	2.8
Midwife	0	0	10	0.1	59	0.4	125	0.7	108	0.8	59	0.9	11	0.8	1	1.1	0	0	373	0.6
Other	0	0	5	0.1	24	0.2	34	0.2	29	0.2	10	0.1	5	0.4	0	0	0	0	107	0.2
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Table 4.23 Number and Percent of Births by Type of Delivery & Age Group of Mother

Type of Delivery	Age Group of Mother																		Total	
	<15		15-19		20-24		25-29		30-34		35-39		40-44		45+		Unknown			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Vaginal	80	86.0	5,792	81.4	11,945	76.7	12,982	72.7	9,442	68.5	4,136	60.7	715	54.7	45	50.0	3	100.0	45,140	72.0
Primary C-Section	13	14.0	1,118	15.7	2,237	14.4	2,603	14.6	2,177	15.8	1,309	19.2	318	24.3	29	32.2	0	0	9,804	15.6
Repeat C-Section	0	0	207	2.9	1,395	9.0	2,281	12.8	2,175	15.8	1,374	20.1	274	21.0	16	17.8	0	0	7,722	12.3
Total	93		7,117		15,577		17,866		13,794		6,819		1,307		90		3		62,666	

Maricopa County 2008 Natality (Birth) Statistics

Table 4.22 Comparisons to Arizona, U.S. and Health People 2010 Goals for Selected Natality Measures

		Maricopa County 2008		Arizona 2008	U.S. 2007 ¹	Healthy People 2010 Goal
		Number of Individuals	Rate or Percent			
Unlinked Infant Mortality – Rate per 1,000 live births	Neo-natal	257	4.1	4.4	4.4	2.9
	Post-natal	124	2.0	2.4	2.4	1.2
	Total	381	6.1	6.3	6.8	4.5
Low birthweight births (< 2500g) – Percent of live births		4,377	7.0%	7.08%	8.2%	5.0%
Births to teen mothers – Percent of live births	10-14 Years Old	93	0.15%	0.16%	0.14%	-
	15-17 Years Old	2,548	4.07%	4.18%	3.26%	-
	15-19 Years Old	7,117	11.36%	12.09%	10.31%	-
	Total 10-19 Years Old	7,210	11.51%	12.26%	10.45%	-
Maternal Mortality – Rate per 100,000 live births		6	9.6	10.1	13.3 ²	3.3

1. All figures are preliminary 2007 U.S. data.

2. Maternal mortality rate is Final 2006 U.S. data.

V. Technical Notes

Population Statistics

Population statistics are shown in Tables **1.01** and **1.02**. This report used the most recent U.S. Census data and estimates for population figures at the time of analysis.

- The Maricopa County population is from the U.S. Census Bureau, County Population Estimates by Age, Sex, Race and Hispanic Origin for July 1, 2008, released May 14, 2009. This is at <http://www.census.gov/popest/counties/asrh/files/cc-est2008-alldata-04.csv>

The population estimates used in this report are from the U.S. Census and based on the Census 2000 population. The population for a community, such as Maricopa County, changes as a result of births, deaths, and migration (moving into or out of the location). Although it is relatively easy to measure the change in population due to births and deaths, it is more difficult to measure the change due to migration. Population estimates may underestimate or overestimate the true population. Population estimates have the potential to become less reliable as more times passes from the last census count due to an accumulation of error. Many of the rates shown in this report use population estimates as the denominator (e.g., 50 cases of disease for every 100,000 people). Therefore, the true burden of disease within Maricopa County may be underestimated (if the population estimate over exaggerates the true population) or overestimated (if the population estimate under exaggerates the true population) due to population estimates even though these are the best estimates available.

This report defines “Hispanic” as: all respondents listing Hispanic, either alone or in combination with any race. The table below shows how the U.S. Census variables of “origin” and “race” are used for categorization in this report.

Table 5.1 Race/Ethnicity Categories Used in This Report		
Category Used in This Report	U.S. Census Code “Race”	U.S. Census Code “Origin”
White	Race=1 (White Alone)	Origin=1 (Non-Hispanic)
African American	Race=2 (Black Alone)	Origin=1 (Non-Hispanic)
American Indian, Non-Hispanic	Race=3 (American Indian or Alaska Native Alone)	Origin=1 (Non-Hispanic)
Asian	Race=4 (Asian Alone) or 5 (Native Hawaiian or Other Pacific Islander Alone)	Origin=1 (Non-Hispanic)
Other	Race=6 (Two or More Races)	Origin=1 (Non-Hispanic)
Hispanic	Race=1,2,3,4,5,6	Origin=2 (Hispanic)

In 2008, the U.S. Census used a new methodology to estimate the race and Hispanic origin of the population. Using birth certificate data from the National Center for Health Statistics, the race and Hispanic origin for both the mother and father of the baby were converted to the 1997 Office of Management and Budget (OMB) race categories. From the conversion, the race and Hispanic origin of the child was then calculated. Due to this new methodology, an actual increase in the population for Hispanic origin can be observed, specifically in the under 10 years of age population. For further information please see:

<http://www.census.gov/popest/topics/methodology/2008-est-relnotes.pdf>.

Mortality (Death) Statistics

Mortality (death) statistics are shown in Tables **2.01a** through **2.14**. Any crude death rate can be calculated by taking the number of deaths from any mortality table in this report and dividing it by the appropriate age, gender, race/ethnicity, or total population denominator found in Tables **1.01** and **1.02**. In tables where rates are shown, “0” means there were no cases/deaths in that category. However, when the number “0.0” is shown, it means that there were fewer than .05 deaths per 100,000 residents. Only one condition, Sudden Infant Death Syndrome (SIDS) is calculated differently. By definition, SIDS deaths only occur in infants; as a result, these numbers are divided by the number of live births (rather than the standard 100,000 residents), to produce a rate per 1,000 live births.

All data on mortality statistics are from death certificates included in the Arizona Department of Health Services (ADHS) final annual files. The data presented in this report include Maricopa County residents only. This includes Maricopa County residents who died in Maricopa County and residents who died elsewhere. Non-Maricopa County residents who died in Maricopa County are not included.

In January 2008, ADHS Office of Vital Records implemented a new online death registration system. Maricopa County began entering deaths occurring in Maricopa County on July 1, 2008. Due to unforeseen circumstances, a large number of deaths were misclassified to ICD-10 codes of ‘R00-R99’ (Symptoms, signs, and abnormal findings), including a large proportion coded to a single code of ‘R99’ (Unknown cause of mortality). Unfortunately, this misclassification was not recognized before ADHS published the *Arizona Health Status and Vital Statistics, 2008* report. Because Maricopa County published the 2008 health status reports later, this misclassification was corrected and the MCDPH reports are accurate. Therefore, the numbers and rates in Table 2.01a through Table 2.03b will not match the numbers reported in early printed reports by ADHS. ADHS later corrected the causes of death in the online copy of their annual report. Please see <http://www.azdhs.gov/plan/report/ahs/ahs2008/pdf/misclassification.pdf> for a more detailed explanation of this issue by ADHS Vital Statistician Christopher Mrela.

During the course of routine data review, several deaths were identified as being in one county even though their city and ZIP codes indicated that they lived in a different county. For these discrepant cases, final classification in this report was based on the address of the resident. (The address is determined by reviewing the street address, city, county, and ZIP code). Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports. In addition, one death was updated with an accurate cause of death.

For both mortality and morbidity (communicable disease), rates for some racial/ethnic populations such as American Indians, Asians, and African Americans may be high compared to other groups. Because these groups have relatively small populations in Maricopa County (under 150,000 residents as shown in Tables **1.01** and **1.02**), these high rates may represent very few deaths/cases. Among small populations, rates are less stable so one case or death can cause a big increase or decrease in the rates. Therefore, it is advisable to examine the raw number of cases or deaths, in addition to the rates.

Tables **2.01b**, **2.02b**, **2.03b**, **2.04b**, **2.06b**, and **2.07b** do not provide a rate for the categories labeled “Unknown Age” or “Unknown Race/Ethnicity.” This is because there is no denominator to use for calculating the rate as the U.S. Census does not report any data on “unknown age” or “unknown race/ethnicity.”

In Tables **2.03a** through **2.05b**, unintentional injury deaths can be found by adding two categories – “motor vehicle collisions” and “all other accidents and adverse effects.” The total for unintentional injuries in this report is higher than the figure reported by ADHS because deaths from “complications of medical and surgical care” are included in this report. This convention follows the national model for classifying unintentional injuries. “Complications of medical and surgical care” include deaths from medical devices, adverse effects related to correct doses of

therapeutic medications, and misadventures to patients during surgical or medical care (ICD-10 Y40-Y84, Y88). The only exceptions to this method are in Tables **2.13** and **2.14**, where unintentional injury deaths do not include complications of medical/surgical care. This change makes the numbers comparable to Healthy People 2010 goals.

Unless otherwise noted, all deaths are attributed to one underlying condition, based on death certificate information, using the rules of the International Classification of Diseases, 10th Revision (ICD-10). Causes of death are classified by ICD-10 codes. The codes used for each category are listed in Table **5.2** below.

Table 5.2 ICD-10 Codes Used for This Report

Cause	ICD-10 Codes Used
Tuberculosis	A16-A19
Syphilis	A50-A53
HIV Disease	B20-B24
Malignant Neoplasms (Cancer)	C00-C97
Malignant Neoplasm of the Stomach	C16
Malignant Neoplasm of the Colon	C18-C21
Malignant Neoplasm of the Pancreas	C25
Malignant Neoplasm of Bronchus, Lung, or Trachea	C33-C34
Malignant Neoplasm of the Breast	C50
Malignant Neoplasm of the Uterus, Cervix, Ovary	C53-C56
Malignant Neoplasm of the Prostate	C61
Malignant Neoplasm of Urinary Organs	C64-C68
Non-Hodgkins Lymphoma	C82-C85
Leukemia	C91-C95
Other Malignant Neoplasms	C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96-97
Diabetes	E10-E14
Alzheimer's	G30
Major Cardiovascular Disease	I00-I78
Disease of Heart	I00-I09, I11, I13, I20-I51
Hypertensive Heart Disease	I11, I13
Ischemic Heart Disease	I20-I25
Other Heart Disease	I00-I09, I26-I51
Coronary Heart Disease	I11, I20-I25
Primary Hypertension	I10, I12
Cerebrovascular Diseases	I60-I69
Atherosclerosis	I70
Other Circulatory	I71-I78
Influenza & Pneumonia	J10-J18
Chronic Lower Respiratory	J40-J47
Asthma	J45-J46
Peptic Ulcer	K25-K28
Liver Disease, including chronic liver disease, cirrhosis, alcoholic liver disease, and other chronic liver disease	K70, K73-K74
Nephritis, nephritic syndrome and nephrosis	N00-N07, N17-N19, N25-N27
Pregnancy, childbirth, and the puerperium	O00-O99

(Table Continues)

(Table 5.2, Continued)

Perinatal Conditions	P00-P96
Congenital Malformations	Q00-Q99
SIDS (Sudden Infant Death Syndrome)	R95
Ill Defined Disease Conditions (Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified, excluding SIDS)	R00-R94, R96-R99
All Other Diseases	A00-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15N20-N23, N28-N98
Motor Vehicle Collisions	V02-V04, V09.0, V09.2, V12-V14, V19.0 - V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0 V89.2
All Other Accidents & Adverse Effects	V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9 V90-X29, X31-X59, Y40-Y86, Y88
Falls	W00-W19
Excessive Exposure to Natural Heat	X30
Accidental Poisoning	X40-X49
Accidental Drowning (Excludes drowning involving water transportation)	W65-W74
Suicide	U03, X60-X84, Y87.0
Homicide	U01-U02, X85-Y09, Y87.1
All Other External Causes	Y10-Y36, Y87.2, Y89
Unknown Causes	No ICD code listed
Firearm Related	W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0
Drug Induced or Related	F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.8, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, X40-X44, X60-X64, X85, Y10-Y14
Alcohol Induced or Related	F10, G31.2, G62.1, I42.6, K29.2, K70, R78.0, X45, X65, Y15

Only the underlying cause of death is used for classification in this report. Although other causes may have contributed to death, the underlying cause of death is the cause that began the disease process that resulted in death. The underlying causes of death chosen for this report are based on the 113 selected causes of death reported by NCHS in their annual report. A few additional causes of death, like coccidioidomycosis, have been selected due to their importance in Arizona.

Firearm, drug, and alcohol induced deaths are also included in a number of other categories, such as suicide, homicide, unintentional injury, etc. For example, a firearm induced death may also be classified as a suicide, homicide, or "other accident or adverse effect." An alcohol induced death may be attributed to a long or short term effect of alcohol, such as acute alcohol intoxication or alcoholic cardiomyopathy.

Tables **2.06a** through **2.08b** show deaths resulting directly (induced) and indirectly (related) from firearms, drugs, and alcohol. Drugs include prescription medications and illegal substances,

regardless of whether use was recreational or medicinal. Tobacco is considered a drug by the National Center for Health Statistics (NCHS). Since tobacco is not often considered to be a drug in the colloquial sense, drug-related deaths are listed both with and without tobacco-related deaths.

Induced deaths refer to cases in which the use of a firearm, drug, or alcohol contributed directly to the cause of death, i.e., death due to an overdose of drugs, or a fatal gunshot injury. Related deaths refer to cases in which the use of a drug or alcohol was listed on the death certificate, but the substance was not necessarily involved in the final cause of death, i.e., death due to dehydration resulting from environmental exposure, with chronic drug use noted elsewhere on the certificate. Related causes of deaths are counted using multiple causes of death (MCD) data supplied by ADHS with the final annual mortality files.

Tables **2.13** and **2.14** show age-adjusted rates for Maricopa County. Age-adjusting removes the effect of a disproportionately large young or old population on crude death rates by computing an overall death rate based on a population with a standard age distribution. An age adjusted rate allows comparisons between different groups, even if one group has more older members than another. A high (unadjusted) death rate for residents of a certain town may be high *only* because that town has more elderly members, who are more likely to die than younger members. Age-adjusted rates allow comparisons between towns, ethnic groups, etc. by adjusting for how many older and younger members there are in the group. For example, the population pyramids at the beginning of this report show a greater percentage of White Non-Hispanics over the age 65 than Hispanics. This creates a much lower crude death rate for Hispanics compared to White Non-Hispanics. Age adjustment shows that White non-Hispanics still have a higher death rate, but the difference is not as extreme. Maricopa County rates are age-adjusted to the 2000 standard population using the direct method described in *Health, United States, 2002* published by the National Center for Health Statistics at www.cdc.gov/nchs/data/hs/hs02.pdf, p.414. Arizona, Healthy People goals, and U.S. rates included in this report are published as age-adjusted to the 2000 standard population by the agencies generating the rates.

For Table **2.14**, the mortality rate for breast cancer is calculated among women only (using only female residents in the denominator). For Tables **2.03b**, **2.04b**, **2.05b**, and **2.14**, prostate cancer rates are calculated among men only (using only male residents in the denominator), and uterine cancer, ovarian cancer, and pregnancy death rates are calculated among women only. In all other tables, and for all other diseases, the total population is used for the denominator for these conditions.

Comparison death rates for Arizona, shown in Table **2.14**, can be found in *Arizona Health Status and Vital Statistics 2008*, published by the ADHS at <http://www.azdhs.gov/plan/report/ahs/ahs2008/toc08.htm>. Figures for the U.S. are preliminary 2007 data for the following categories: heart disease, cancers, cerebrovascular disease, unintentional injuries, pneumonia and influenza, diabetes, suicide, and all causes combined. The data were published in National Vital Statistics Reports, Vol 58, no 1, August 19, 2009. These data can be found at: http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_01.pdf. All other U.S. mortality data are final 2006 data from National Vital Statistics Reports, Vol 57, no. 14, April 17, 2009. These data are at http://www.cdc.gov/NCHS/data/nvsr/nvsr57/nvsr57_14.pdf. Healthy People 2010 Goals are set by the Department of Health and Human Services and may be found at www.healthypeople.gov/Document/tableofcontents.htm.

Communicable Disease (Morbidity) Statistics

Communicable disease statistics are shown in Tables **3.01a** through **3.04**. Any morbidity rate except for Streptococcal Group B Invasive disease can be calculated by taking the number of cases from any communicable disease table in this report and dividing it by the appropriate age, gender, race/ethnicity, or total population denominator found in Tables **1.01** and **1.02**. Because Streptococcal Group B Invasive disease is only reportable in infants under 90 days, these numbers are divided by the number of live births, to produce a rate per 1,000 live births.

The data presented in this report include communicable diseases to residents of Maricopa County. This includes Maricopa County residents who acquired a disease in Maricopa County and residents who acquired a disease elsewhere. Non-Maricopa County residents are not included, even if they acquired a disease in Maricopa County. For Hansen's disease only, tables include residents from various counties in Arizona, regardless of where the disease was acquired. Other reports may show different morbidity rates because they include non-residents who acquired disease in Maricopa County or they exclude residents who were exposed outside of the county. For example, MCDPH Health Status Reports show six residents with West Nile virus (WNV) in 2003. Two of these cases acquired WNV outside of Maricopa County; the other four cases were acquired locally.

All data on communicable diseases are new cases of reportable diseases from the ADHS final annual files. There are several exceptions: data on hepatitis C, genital herpes, gonorrhea, Chlamydia, syphilis, and Hansen's disease are from MCDPH data files.

Data on tuberculosis, STDs, HIV, and AIDS may differ from other reports published by MCDPH and ADHS. Data on these diseases are in databases that may have been updated during the time between reports. The data for this report were acquired on the following dates.

- Tuberculosis data were acquired on July 10, 2009.
- STD data were acquired on June 25, 2009.
- Syphilis data were acquired on June 25, 2009.
- HIV/AIDS data for Maricopa County residents were acquired on July 10, 2009.
- HIV/AIDS data for Arizona residents were acquired on March 17, 2009.

Communicable disease data include only confirmed cases, with the exception of West Nile Virus, hepatitis B (acute), and Hansen's disease. West Nile virus and hepatitis B data include confirmed and probable cases. Data for Hansen's disease includes confirmed, probable, and suspect cases diagnosed in Maricopa County (including diagnoses of non-county residents).

All communicable disease statistics in this report are new cases for each specified year (incidence). The exception is Hansen's disease for which the prevalence (all existing cases from all years) is shown. The figures presented for Hansen's disease may differ from previous years due to the addition of cases diagnosed in previous years but only recently available.

Data can be classified by date of onset, date of diagnosis or date of report to the health department. All diseases/conditions listed in this report are classified by the date of report to the health department. The only exceptions are HIV, AIDS, and Hansen's disease which are classified by the date of diagnosis.

The category "Encephalitis Viral" includes St. Louis encephalitis and all other types of viral encephalitis except for West Nile virus. This may differ somewhat from other reports that include only certain types of encephalitides.

In previous Health Status Reports, hepatitis B data were also obtained from the MCDPH. This report uses hepatitis B data for confirmed and probable acute cases from ADHS. Comparison of hepatitis B cases in 2008 to previous years will show a decrease in the total number of cases. This decrease is most likely due to changes in the investigation of the disease and not due to a change in the communicability of the disease in Maricopa County.

In previous Health Status Reports, hepatitis C and vancomycin-resistant enterococci (VRE) cases were reported. While hepatitis C is still reportable, cuts in staff and limited funding have prevented an investigation of the disease. Therefore, with the validity of the data in question, the data is not presented in this report. VRE is not reported in this report because it was removed from the reportable disease lists on April 1, 2008.

In Tables **3.01a** through **3.03b**, the category labeled “All Others” includes all reportable diseases in the ADHS communicable disease database that are not listed previously on the table.

In addition to VRE being removed from the reportable disease lists, several diseases were also added. This includes respiratory syncytial virus (RSV) and norovirus, which can be found in the counts for ‘All Others’. The addition of these two diseases partially explains a sharp increase in the total count for ‘All Others’ compared to earlier years.

In Table **3.04**, comparison morbidity rates for Arizona can be found in *Arizona Health Status and Vital Statistics 2008*, <http://www.azdhs.gov/plan/report/ahs/ahs2008/toc08.htm>. The rates for HIV and AIDS for Arizona were provided directly from ADHS on March 17, 2009. All U.S. rates are for 2006 and may be found at <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5653a1.htm>. Healthy People 2010 Goals are set by the Department of Health and Human Services and may be found at www.healthypeople.gov/Document/tableofcontents.htm.

Nativity (Birth) Statistics

Nativity (birth) statistics are shown in Tables **4.01** through **4.24**. The natality percentages for some groups such older and younger maternal age groups (under 15 and over 45) or certain racial/ethnic groups may be high compared to other groups. These groups have relatively small numbers of births in Maricopa County (as shown in Table **4.01**). Although percentages may be high, they may represent only one or two cases in a given category. Therefore, it is advisable to check the raw numbers in addition to the rates.

All data on birth statistics are from birth certificates included in the Arizona Department of Health Services (ADHS) final annual files. The data presented in this report include births to mother’s whose county of residence is Maricopa County. This may include births that did not occur in Maricopa County. Also included are some births that occurred outside of Arizona to mothers who reside in Arizona but the county and city of residence is unknown. National Center for Health Statistics rules state that if a birth does not occur in the state of residency and the county and city are unknown, the city of residency is assigned to the largest city in the state of residency. For Arizona, the largest city is Phoenix. For further explanation, please see <http://www.cdc.gov/nchs/data/dvs/3amannual.pdf>.

During the course of routine data review, several births were identified as being in one county even though their city and ZIP codes indicated that they lived in a different county. For these discrepant cases, final classification in this report was based on the address of the resident. (The address is determined by reviewing the street address, city, county, and ZIP code). Therefore, the numbers presented in this report may not precisely match those presented by ADHS in other reports.

Infant mortality statistics shown in Table **4.24** are from unlinked data or the number of infant deaths in a given year. The table shows comparisons to Arizona and the U.S. U.S. data are preliminary for 2007, from the National Center for Health Statistics. Infant mortality and maternal mortality data for the U.S. can be found in *Deaths: Preliminary Data for 2007* National Vital Statistic Reports Vol 58, no 1, August 19, 2009 at http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_01.pdf.

U.S. Data for low birthweight births and births to teen mothers can be found in *Births: Preliminary Data for 2007*, National Vital Statistics Reports, Vol 57, no 12, March 18, 2009 at

http://www.cdc.gov/nchs/data/nvsr/nvsr57/nvsr57_12.pdf. Arizona figures for 2008 can be found in *Arizona Health Status and Vital Statistics 2008*, published by the ADHS at <http://www.azdhs.gov/plan/report/ahs/ahs2008/toc08.htm>. An explanation of unlinked infant mortality data is presented below.

Adequate prenatal care is based on the Adequacy of Prenatal Care Utilization Index (APCUI)¹. This index considers both the timing of prenatal care initiation and the number of visits after care was initiated, comparing the number of actual visits to the number of visits recommended by the American College of Obstetricians and Gynecologists. This index does not describe the quality of the care or adjust for maternal risk factors. Only singleton (the birth of one baby rather than twins, triplets, or other multiple births) births are shown in these tables because twins and higher order births are typically higher risk pregnancies, and the index is not appropriate for summarizing their prenatal care usage.

- a) Inadequate: Prenatal care began after the fourth month of pregnancy or less than 50% of the expected prenatal care visits were attended
- b) Intermediate: Prenatal care began before the fourth month and 50 to 70% of the expected visits were attended
- c) Adequate: Prenatal care began prior to the fourth month and 80-109% of expected visits were attended
- d) Adequate plus: Prenatal care began prior to the fourth month of pregnancy and 110% or more of the expected visits were attended

The following definitions related to reproductive health have been established by National Center for Health Statistics²:

- Birth or Live Birth³ – The complete expulsion or extraction from the mother of a product of human conception, irrespective of the duration of pregnancy or birthweight which, after such expulsion or extraction, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.
- Fertility Rate – Number of live births during a calendar year per 1,000 women age 15 to 44.
- Births to Teenage Mothers – Live births occurring to females under age twenty.
- Birth Weight – The weight of a neonate determined immediately after delivery or as soon thereafter as possible.
- Low Birthweight – Any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).
- Very Low Birthweight – Any neonate weighing less than 1,500 grams at births (less than 3 pounds, 4 ounces).
- Preterm – Any neonate whose birth occurs through the end of the last day of the 37th week (259th day), following onset of the last menstrual period.
- Infant Death – Any death at any time from birth up to, but not including, the first year of age (<365 days).
- Infant Mortality Rate – Number of infant deaths per 1,000 live births.

¹ Kotelchuck, M. An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index, *American Journal of Public Health*, 1994; 84(9):1414-1420.

² NCHS guidelines were adopted from those established by the World Health Organization (WHO).

³ The Arizona statute defining a live birth follows this definition.

- Maternal Mortality Rate – Number of deaths to the mother per 100,000 births.
- Neonatal Mortality Rate – Number of deaths to infants at or under 28 days of age, per 1,000 live births.
- Postnatal (Postneonatal) Mortality Rate – Number of deaths to infants between 29 days and 365 days after birth, per 1,000 live births.
- Unlinked Infant Mortality – The number of infant deaths in a given calendar year, as determined from mortality records.

Healthy People 2010 Goals

The Centers for Disease Control and Prevention provide national health goals for the year 2010 – Healthy People (HP) 2010 goals. Some of these goals are shown in Tables **2.14**, **3.04**, and **4.16**. A hyphen indicates that no goal has been set for that indicator or the goal is not comparable to Maricopa County data. “0” indicates that the goal is zero.

This report provides HP 2010 Goals only when the goals are comparable to Maricopa County data. A goal is considered comparable in this report if two conditions exist:

- First, the HP Goal must include the same conditions as are included in the Maricopa County data. For example, if the Maricopa County figure for heart disease includes all heart disease but the HP 2010 goal includes only coronary heart disease, the goal is not listed as a comparison to the heart disease rate.
- Second, the HP 2010 goals use ICD-9 codes while the Maricopa County 2007 data use ICD-10 codes. Therefore, they may or may not be comparable. For this reason, only select HP 2010 goals are presented here for comparison. A nationally tested “conversion ratio” between ICD-9 and ICD-10 codes for any given condition must fall between certain boundaries. The conversion ratio measures how closely the two classifications resemble each other. A conversion ratio of “1” means that the ICD-9 codes are equivalent to the ICD-10 codes for that category. If the conversion ratio is between 0.95 and 1.05, a direct comparison is made with no mention of any differences. If the ratio does not meet this requirement, but is between 0.80 and 1.20, the potential bias is mentioned in the report, along with specifying the direction of the bias. A ratio that exceeds the .80 to 1.20 range is not used for comparisons. The conversion ratios are from *Deaths: Final Data for 1999*, National Vital Statistics Reports, Volume 49:8, National Center for Health Statistics.

More information on the technical aspects of HP 2010 can be found at www.healthypeople.gov/document/tableofcontents.htm#tracking.

More Information

For more information on population and health statistics, please visit the following websites:

- Maricopa County Department of Public Health: http://www.maricopa.gov/Public_Health/
- Arizona Department of Health Services: www.hs.state.az.us
- Centers for Disease Control and Prevention, National Center for Health Statistics: www.cdc.gov/nchs
- Department of Economic Security: <https://www.azdes.gov/aspnew/default.asp>